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LITIGATION TECHNICAL SUPPORT AND SERVICES

Rocky Mountain Arsenal

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Air Remedial Investigation  
Final Report  
Volume II  
(Version 3.1)

August 1988  
Contract Number DAAK11-84-D-0016  
Task Number 18 (Air Monitoring)

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PREPARED FOR

U.S. ARMY PROGRAM MANAGER'S OFFICE FOR ROCKY MOUNTAIN ARSENAL

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**DTIC QUALITY INSPECTED 3**

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- B.1 TSP DATA
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Accession For	
NTIS	CRA&I <input checked="" type="checkbox"/>
DTIC	TAB <input type="checkbox"/>
Unannounced	<input type="checkbox"/>
Justification	
By	
Distribution /	
Availability Codes	
Dist	Avail and/or Special
A-1	

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REPORT, MAY 1988**



**APPENDIX A**  
**DOCUMENTATION OF DEVIATIONS**  
**FROM THE TECHNICAL PLAN METHODS**

# Appendix A. Documentation of Deviations from the Technical Plan Methods.

Activity/Procedure	Technical Plan Approach	Actual Field Approach	Reason for Deviation
Sampling stations AQ4 and AQ10	Electrical power supplied by propane generators.	Station removed from service.	Unreliability of propane generators at stations AQ4 and AQ10. No nearby power sources.
Sampling station AQ9x	Sampling station AQ9x was not anticipated in the Technical Plan.	AQ9x is a collocated sampling station located next to AQ9.	There was a need for collocated TSP & PM-10 sampling data for QA/QC purposes.
Filter preparation	TSP & PM-10 filters were to be weighed three times to the nearest milligram.	TSP & PM-10 filters were weighed two times to the nearest milligram.	The accuracy of the weighing balance was better than anticipated and there was no need to weigh the filters three times. Spot checks proved this true.
Weighing balance location	The weighing balance was to be located at the ESE Denver laboratory.	The weighing balance was at the ESE RMA field sampling trailer.	More convenient and cost efficient filter weighing. Special accommodations were made to assure the accuracy of weighing.
Asbestos sampler calibration	Flow rates were to be checked at the beginning, middle, and end of the sampling period.	Flow rates were checked at the beginning and the end of the sampling period.	ESE eliminated the middle flow check so the sample flow would not be interrupted.
Volatile organic compounds sampling equipment	A shelter was to be used to protect the sampling equipment from bad weather conditions.	ESE did not use the shelter during sampling.	There was insufficient power to operate the blower fan in the housing.
Volatile organic compound sampling flow rate and volume	The flow rate through the traps was to be approximately 20 milliliters per minute (ml/min) with a total sample volume of 9 to 10 liters (L).	The flow rate through the traps was approximately 40 ml/min with a total sample volume of approximately 5L.	According to EPA Method TO-1 that the ESE Gainesville Laboratory certified for, total sample volume could not exceed 5L.
Metals sampling stations	Metals samples were to be collected at AQ1, AQ3, AQ4, AQ5, and four mobile stations.	Metals samples were collected at AQ1, AQ3, AQ5, and five mobile stations.	Unreliability of propane generators at station AQ4.
Metals sample collection and handling	TSP filters were to be analyzed for metals.	Separate filters from TSP filters were used for metals analyses.	Metal samples were taken on a different frequency than TSP samples so the metals filters need not be weighed.

**APPENDIX B**  
**AIR QUALITY DATA**

**APPENDIX B.1**  
**TSP DATA**

799 DATA 29 JUL 1988

DATE..... STA. ID.. SAMPLE NO..... SAMPLE NO..... FILLED NO..... INIT. TIME..... FIN. TIME..... ELAPSE TIME... FLOW..... DUTY WT..... NET WT..... CONC..... PRESSURE... TEMP..... COMMENTS.....

06-13-86 A01 A01TS01 3 7 1482.3 2897.2 1414.9 38.50 2.8974 2.9982 .0928 1555.4345 58.6618 629.920 288.730  
06-13-86 A01 A01TS02 576 16 2897.2 4333.4 1435.2 37.00 2.9175 3.0398 .0923 1508.7848 61.1751 627.634 295.320  
06-25-86 A01 A01TS03 576 31 4333.4 5768.3 1434.9 36.70 2.9983 3.0117 .1024 1512.707 67.6932 627.338 288.945  
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 62.7488

07-01-86 A01 A01TS04 576 41 5768.3 7202.9 1434.6 37.20 2.9987 3.0017 .093 1556.2039 60.9255 630.089 293.125  
07-07-86 A01 A01TS05 576 37 7202.9 8637.8 1434.9 37.87 2.9169 2.9788 .0619 1546.0042 60.0377 631.266 293.785  
07-13-86 A01 A01TS06 576 52 8637.8 10073.4 1435.6 37.78 2.9948 3.0001 .0933 1537.7009 61.9756 628.320 295.160  
07-19-86 A01 A01TS07 576 62 10073.4 11508.6 1435.2 37.31 2.9211 2.9650 .0439 1536.6718 64.704 634.704 291.060  
07-25-86 A01 A01TS08 576 72 11508.6 12943.5 1434.9 39.77 2.9506 2.9731 .0925 1611.6866 62.5747 631.190 293.200  
07-31-86 A01 A01TS09 576 75 12943.5 14379.9 1436.4 37.83 2.9809 3.0424 .1215 1547.8071 78.4982 630.301 292.630  
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 47.1915

08-06-86 A01 A01TS010 576 93 14379.9 15816.6 1436.7 38.40 2.9236 3.0405 .1149 1558.7882 73.7111 628.396 295.655  
08-12-86 A01 A01TS011 576 112 15816.6 17252.4 1435.8 38.19 2.8956 2.9873 .0967 1487.1724 65.0227 628.100 293.570  
08-18-86 A01 A01TS012 576 118 17252.4 18690.0 1437.6 42.27 2.8810 3.0148 .1338 1687.7553 79.2769 631.910 298.645  
08-24-86 A01 A01TS013 576 122 18690.0 20126.2 1436.2 42.08 2.9323 2.9761 .0436 1686.6543 83.8469 628.472 294.020  
08-30-86 A01 A01TS014 576 133 20126.2 21562.6 1436.4 42.63 2.9101 3.0214 .1113 1708.6853 85.0997 628.320 292.390  
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 57.6561

09-05-86 A01 A01TS015 576 143 21562.6 22998.9 1434.3 42.19 2.9167 3.0347 .118 1656.3094 69.5632 630.000 291.515  
09-11-86 A01 A01TS016 576 153 22998.9 24435.3 1435.6 46.08 2.9594 3.0623 .0929 1840.6355 90.4712 628.520 287.590  
09-17-86 A01 A01TS017 576 162 24435.3 25871.5 1436 43.90 2.9271 3.0411 .114 1753.658 64.9956 626.491 290.980  
09-23-86 A01 A01TS018 576 171 25871.5 27306.1 1436.6 44.70 2.9005 2.9988 .0983 1784.8441 85.0748 625.433 289.350  
09-29-86 A01 A01TS019 576 179 27306.1 28742.0 1435.9 44.00 2.9074 2.9633 .0659 1774.2992 81.3054 627.329 294.810  
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 52.4845

10-05-86 A01 A01TS020 576 173 28742.0 30178.0 1436 44.40 2.9227 2.9712 .0475 1800.9307 86.3753 632.841 282.599  
10-11-86 A01 A01TS021 576 191 30178.0 31611.4 1435.9 44.40 2.8539 2.9322 .0783 1783.75 43.8563 628.777 287.090  
10-17-86 A01 A01TS022 576 202 31611.4 33045.0 1435.6 46.70 2.7506 2.8505 .0959 1882.5694 53.0658 631.360 280.235  
10-23-86 A01 A01TS023 576 210 33045.0 34480.7 1435.6 45.60 2.7313 2.8816 .1503 1838.3078 81.76 631.922 283.550  
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 47.3418

11-04-86 A01 A01TS024 576 221 34480.7 35915.5 1434.8 43.80 2.7701 2.8807 .1106 1783.3403 62.0185 629.920 279.540  
11-10-86 A01 A01TS025 576 232 35915.5 37348.3 1432.8 47.50 2.7187 2.7911 .0724 1955.4873 37.024 630.428 284.810  
11-16-86 A01 A01TS026 576 244 37348.3 38781.1 1432.1 43.20 2.9171 2.9790 .0619 1733.4942 35.5651 622.808 283.760  
11-22-86 A01 A01TS027 576 255 38781.1 40212.5 1432.1 44.70 2.8821 2.9683 .0762 1813.3827 42.0228 625.907 277.030  
11-28-86 A01 A01TS028 576 275 40212.5 41645.6 1433.3 45.40 2.6765 2.7872 .1107 1826.733 60.6 629.285 282.970  
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 46.0942

12-04-86 A01 A01TS029 576 279 41645.6 43080.2 1434.4 47.50 2.6777 2.9415 .2638 1942.0344 135.8369 631.266 278.110  
12-10-86 A01 A01TS030 576 294 43080.2 44515.6 1436.3 47.50 2.6849 2.8255 .1377 1950.1723 70.2489 628.658 284.095  
12-16-86 A01 A01TS031 576 304 44515.6 45951.1 1435 45.90 2.6797 2.9386 .2589 1866.677 138.7403 630.301 276.460  
12-22-86 A01 A01TS032 576 312 45951.1 47382.8 1435.7 54.30 2.6875 3.0113 .2839 2451.9543 125.834 629.539 275.290  
12-28-86 A01 A01TS033 576 325 47382.8 48812.5 1435.4 41.10 2.7743 2.8972 .1229 1891.0685 64.9916 630.174 274.780  
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 102.84

01-03-87 A01 A01TS034 576 339 48812.5 50243.2 1434.5 41.40 2.8945 2.8858 .0813 1897.3059 42.8502 627.456 275.370  
01-09-87 A01 A01TS035 576 347 50243.2 51678.7 1435.1 44.40 2.8636 3.0230 .1594 2049.3094 77.7823 627.761 272.000  
01-15-87 A01 A01TS036 576 359 51678.7 53113.9 1434.1 46.10 2.7716 2.8113 .0397 2152.9817 18.4355 627.329 283.210  
01-21-87 A01 A01TS037 576 370 53113.9 54548.1 1434.2 45.30 2.7841 2.8243 .3002 2055.193 143.2802 626.026 289.830

Equipment failure

TOP DATA 23 JUL 1988

DATE..... STA ID.. SAMPLE NO..... SAMPLE NO..... FILTERED NO..... INT. TIME.... FINAL TIME... ELAPS. TIME... FLUX..... INT. WT..... FINAL WT..... CONC..... VOLUME..... MEASURE..... TOP..... COMMENTS.....

01-27-87 A01 A01TS939 576 381 57066.1 59498.7 1432.6 42.00 2.9092 3.0373 .1281 1894.9366 67.6012 626.821 281.000  
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 56.8781

02-02-87 A01 A01TS940 576 333 59498.7 59531.5 1432.8 42.80 2.9061 3.0527 .1466 1919.1617 76.3873 622.808 284.863  
02-08-87 A01 A01TS941 576 406 59531.5 61365.5 1434. 43.40 2.8165 2.9484 .1319 1983.8502 66.4869 631.698 278.563  
02-14-87 A01 A01TS942 576 417 61365.5 62798.9 1434.4 42.50 2.8220 2.8834 .0634 1930.3731 32.8434 620.014 276.630  
02-20-87 A01 A01TS943 576 430 62798.9 64234.8 1436.3 43.50 2.8256 2.9289 .1033 2013.7163 51.2982 628.650 271.195  
02-26-87 A01 A01TS944 576 440 64234.8 65669.1 1434.3 44.10 2.8210 2.8588 .0378 2038.8265 18.5401 621.062 268.763  
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 43.66

03-04-87 A01 A01TS945 576 448 65669.1 67103.4 1434.3 41.90 2.8217 3.0117 .19 1903.1378 93.8351 633.222 282.840  
03-10-87 A01 A01TS946 576 465 67103.4 68538.2 1434.8 43.40 2.8056 2.9501 .1445 1955.4158 72.416 623.158 274.553  
03-16-87 A01 A01TS947 576 472 68538.2 69973.3 1435.1 43.00 2.7871 2.8854 .0634 1961.924 10.9077 620.014 274.553  
03-22-87 A01 A01TS948 576 487 69973.3 71408.4 1435.1 44.30 2.7862 2.8818 .0156 2003.3988 7.7868 620.268 279.900  
03-28-87 A01 A01TS949 576 508 71408.4 72842.9 1434.5 44.60 2.7902 2.8161 .0229 2042.3614 12.6814 629.920 277.639  
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 23.8332

04-03-87 A01 A01TS950 576 511 72842.9 74278.7 1435.8 44.30 2.7826 2.8781 .0955 2028.864 47.0707 628.320 279.260  
04-09-87 A01 A01TS951 576 514 74278.7 75714.2 1435.5 44.30 2.7921 2.9017 .1096 2004.6471 54.673 625.885 282.285  
04-15-87 A01 A01TS952 576 532 75714.2 77149.3 1435.1 42.60 2.8124 2.9106 .0982 1902.9324 51.6046 627.431 290.080  
04-21-87 A01 A01TS953 576 544 78594.5 80021.1 1435.6 43.80 2.8228 2.9125 .0837 1970.9717 42.4664 635.457 290.185  
04-27-87 A01 A01TS954 576 555 80021.1 81457.7 1436.6 43.70 2.7567 2.8304 .0737 1976.1763 37.2542 633.438 287.559  
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 46.1334

05-03-87 A01 A01TS955 576 586 81457.7 82893.9 1436.2 45.8 2.7823 2.8820 .0197 2082.8853 9.458 628.904 281.14  
05-09-87 A01 A01TS956 576 577 82893.9 84331.8 1437.9 43.8 2.8001 2.8647 .0646 1957.3761 33.0034 627.253 290.94  
05-15-87 A01 A01TS957 576 588 87282.5 88639.1 1436.6 43.3 2.7608 2.8361 .0753 1922.898 38.1596 629.285 293.005  
05-21-87 A01 A01TS958 576 608 90074.2 91510.8 1436.6 46.8 2.8329 2.8477 .0148 2079.685 7.1167 628.520 282.01  
05-27-87 A01 A01TS959 576 610 91510.8 92947.8 1437 42.5 2.8328 2.9196 .0668 1904.9348 45.5839 622.173 286.455  
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 28.8749

06-02-87 A01 A01TS960 576 622 92947.8 94381.7 1433.9 44.7 2.8116 2.9005 .089 2002.3759 44.4438 625.666 289.05  
06-08-87 A01 A01TS961 576 633 94381.7 95816.6 1433.4 44.1 2.8372 2.7861 .0889 1973.8497 45.0389 630.386 290.195  
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 44.7398

ANNUAL GEOMETRIC AVERAGE CONCENTRATION = 46.7641

06-13-86 A02 A02TS91 579 6 2788.6 4234.4 1444.8 41.00 2.9018 3.0279 .1289 1822.6383 78.285 629.920 288.720  
06-19-86 A02 A02TS92 579 15 4234.4 5679.3 1445.1 41.30 2.9313 3.0601 .1086 1610.3396 67.4308 627.634 296.320  
06-25-86 A02 A02TS93 579 30 5679.3 7133.3 1453.8 40.00 2.9853 3.0573 .1504 1587.9066 94.7159 627.338 288.945  
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 78.3424

07-01-86 A02 A02TS94 579 40 7133.4 8574.7 1441.3 42.10 2.9045 3.0533 .1488 1658.7092 90.1431 630.889 291.125  
07-07-86 A02 A02TS95 579 42 8574.7 10017.6 1442.9 41.00 2.9203 2.9984 .0779 1607.9631 48.4464 631.266 293.763  
07-13-86 A02 A02TS96 579 42 8574.7 10017.6 1442.9 41.00 2.9203 2.9984 .0779 1607.9631 48.4464 631.266 293.763  
07-19-86 A02 A02TS97 579 42 8574.7 10017.6 1442.9 41.00 2.9203 2.9984 .0779 1607.9631 48.4464 631.266 293.763  
07-25-86 A02 A02TS98 581 73 12948.6 14383.6 1445 44.54 2.9194 2.9922 .0728 1783.5483 41.2804 631.190 293.280  
07-31-86 A02 A02TS99 581 88 14383.6 15835.9 1442.3 42.56 2.9436 3.1047 .1611 1697.6558 94.8948 630.301 292.630  
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 64.3124

Equipment failure  
Equipment failure

08-06-86 A02 A02TS910 581 92 15835.9 17278.7 1442.8 41.00 2.9413 3.0870 .1457 1604.6894 90.5706 628.356 293.695

```

DATE..... STA. ID.. SAMPLE NO..... FILTER NO... INIT. TIME... FINAL TIME... ELAPS. TIME... FLOW..... INIT. WT.... FINAL WT.... NET WT.... VOLUME..... CONC..... PRESSURE.. TEMP..... COMMENTS.....

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[illegible]

TSP DATA 23 JUL 1988

DATE..... STA. ID., SAMPLE NO.,..... SUPPLER NO.,..... FILTER NO.,..... INIT. TIME..... FINL. TIME..... ELAPS. TIME... FLOW..... INIT. WT..... FINL. WT... NET. WT..... CONC..... VOLUME..... MEASURE..... TEMP..... COMMENTS.....

03-09-87 022 022TS043 504 507 68905.7 70352.6 1446.9 47.40 2.7782 2.8125 .0343 2036.812 16.84 629.920 277.039

MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 25.4355

04-03-87 022 022TS050 504 512 70352.6 71797.0 1444.4 45.30 2.7806 2.8342 .0336 1928.326 27.7532 628.320 279.260  
 04-09-87 022 022TS051 504 521 72842.5 71797.0 1445.5 47.10 2.7755 2.8681 .0526 1955.1163 46.4133 628.805 282.205  
 04-15-87 022 022TS052 504 535 72842.5 74699.2 1456.7 44.10 2.8357 2.8934 .0567 1852.2949 30.6107 627.431 290.080  
 04-21-87 022 022TS053 504 546 74699.2 76143.1 1443.9 45.80 2.8057 2.8686 .0629 1922.6907 32.7146 635.457 290.185  
 04-27-87 022 022TS054 504 556 76143.1 77586.4 1443.3 45.40 2.7465 2.8408 .0943 1914.1394 49.2653 635.438 287.520

MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 36.3700

05-03-87 022 022TS055 504 567 77586.5 79030.3 1443.8 46.2 2.7863 2.8082 .0217 1832.0685 11.8445 628.904 281.14  
 05-09-87 022 022TS056 504 578 79030.3 80475.1 1444.8 44.6 2.7900 2.8512 .0612 1725.0882 35.4764 627.253 290.94  
 05-15-87 022 022TS057 504 589 80475.1 81919.8 1444.7 44.2 2.7676 2.8353 .0677 1697.0501 39.8928 629.285 293.005  
 05-21-87 022 022TS058 504 607 81919.8 83363.9 1444.1 43.7 2.8498 2.8695 .0197 1716.8379 11.4746 628.523 282.01  
 05-27-87 022 022TS059 504 611 83363.9 84808.4 1444.5 44.0 3.0059 3.0882 .0793 1705.5136 46.4963 622.173 286.435

MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 24.3641

06-02-87 022 022TS060 504 623 84808.4 86254.4 1446 45.1 2.7962 2.8831 .0869 1758.8516 49.4072 629.666 289.05  
 06-08-87 022 022TS061 504 635 86254.4 87697.9 1445.7 45.9 2.8717 2.9646 .0929 1920.5408 61.0967 630.386 290.495

MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 34.942

ANNUAL GEOMETRIC AVERAGE CONCENTRATION = 46.9151

06-13-86 023 023TS01 567 4 1074.6 2911.2 1436.6 42.00 2.9058 2.9916 .0948 1756.5067 48.2776 629.920 288.730  
 06-19-86 023 023TS02 567 22 2911.2 4344.7 1433.5 41.80 2.9466 3.0217 .0731 1718.7446 42.531 627.634 296.320  
 06-25-86 023 023TS03 567 25 4344.8 5776.7 1431.9 40.90 2.8944 2.9918 .0974 1700.7568 57.2686 627.138 288.945

MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 48.9917

07-01-86 023 023TS04 567 35 5776.7 7210.0 1433.3 41.66 2.9194 3.0130 .0956 1723.4254 55.4066 630.089 291.125  
 07-07-86 023 023TS05 567 49 7210.0 8643.6 1433.6 43.08 2.9106 2.9581 .0475 1784.3327 26.6203 631.266 293.765  
 07-13-86 023 023TS06 567 56 8643.6 10075.6 1432 41.13 2.9153 3.0049 .0896 1691.6379 52.9032 628.320 295.160  
 07-19-86 023 023TS07 567 67 10075.6 11508.4 1432.8 42.71 2.9049 2.9535 .0486 1781.0665 27.287 634.704 291.060  
 07-25-86 023 023TS08 567 68 11508.4 12942.5 1434.1 41.42 2.9068 2.9654 .0586 1717.4943 34.1197 631.190 293.280  
 07-31-86 023 023TS09 567 84 12942.5 14378.5 1436 41.75 2.9011 3.0407 .1396 1734.1686 80.4997 630.301 292.630

MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 42.4459

08-06-86 023 023TS010 567 99 14378.5 15811.1 1432.6 41.21 2.9802 3.0532 .105 1696.23 61.902 628.396 295.695  
 08-12-86 023 023TS011 567 106 15811.1 17245.6 1434.5 41.29 2.9444 3.0172 .0728 1787.5262 42.6348 628.100 293.570  
 08-18-86 023 023TS012 567 115 17245.6 18681.3 1435.7 45.83 2.9292 3.0273 .104 1886.4401 52.0027 631.910 296.645  
 08-24-86 023 023TS013 567 126 18681.3 20115.0 1433.7 47.38 2.9315 2.9728 .0413 1957.3614 21.0998 628.472 294.090  
 08-30-86 023 023TS014 567 138 20115.0 21550.4 1435.4 46.63 2.8957 2.9811 .0854 1933.8859 44.1598 628.320 292.390

MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 41.8177

09-05-86 023 023TS015 567 134 21550.4 22985.6 1435.2 46.92 2.9296 3.0532 .0996 1951.1692 51.0463 630.000 291.515  
 09-11-86 023 023TS016 567 152 22985.6 24420.2 1434.6 47.54 2.9044 2.9623 .0579 1987.2391 29.1359 628.520 287.990  
 09-17-86 023 023TS017 567 147 24420.2 25856.7 1436.5 46.50 2.9035 3.0075 .104 1931.8236 53.6351 626.491 290.960  
 09-23-86 023 023TS018 567 166 25856.7 27291.8 1435.1 47.20 2.9135 2.9835 .07 1962.8538 35.6623 625.433 289.350  
 09-29-86 023 023TS019 567 180 27291.8 28727.2 1435.4 48.80 2.9149 2.9626 .0477 2049.0598 23.279 627.329 284.810

MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 36.6882

10-05-86 023 023TS020 567 184 28727.2 30163.9 1436.7 49.40 2.9196 2.9532 .0336 2092.4214 16.0803 632.841 282.390



TOP DATA 23 JUL 1986

DATE..... STA. ID. ... SAMPLE NO. .... SAMPLER NO. .... FILTER NO. ... INIT. TIME ... FINAL TIME ... ELONG. TIME ... FLOW ... INIT. WT. .... FINAL WT. .... CONC. .... PRESSURE ... TEMP. .... COMMENTS .....

10-11-86 AQ3 AQ3TS921 567 194 30153.9 31598.2 1434.3 50.80 2.7944 2.8144 .02 2189.0678 9.1363 630.758 271.490  
 10-17-86 AQ3 AQ3TS922 567 198 31598.2 33034.8 1436.6 49.30 2.7217 2.7765 .0948 2065.9268 26.3236 628.777 287.090  
 10-23-86 AQ3 AQ3TS923 567 204 34040.5 35476.9 1435.4 49.70 2.7533 2.8084 .0531 2112.0544 26.0883 631.360 290.235  
 10-29-86 AQ3 AQ3TS924 567 212 35476.9 36912.7 1435.8 50.10 2.7376 2.8307 .0531 2116.6861 43.984 631.932 283.350  
 MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 21.3763

11-04-86 AQ3 AQ3TS925 567 223 36912.7 38347.4 1434.7 49.10 2.7424 2.8128 .0704 2084.2874 33.7765 629.920 279.540  
 11-10-86 AQ3 AQ3TS926 567 237 38347.4 39782.1 1434.7 52.80 2.7435 2.7878 .0442 2203.8448 19.1853 630.428 284.810  
 11-16-86 AQ3 AQ3TS927 567 249 39782.0 41217.0 1435 49.60 2.9258 2.9642 .0374 2078.3991 17.9946 622.808 283.760  
 11-22-86 AQ3 AQ3TS928 567 257 41217.0 42652.5 1435.5 50.20 2.8570 2.9340 .077 2134.9906 36.0657 625.907 277.030  
 11-28-86 AQ3 AQ3TS929 567 277 42652.5 44087.9 1435.4 49.90 2.6654 2.7096 .0442 2105.3417 20.9942 629.285 282.970  
 MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 24.501

12-04-86 AQ3 AQ3TS930 567 281 44087.5 45522.0 1434.5 50.90 2.6885 2.8048 .1553 2200.1683 71.04 631.266 270.110  
 12-10-86 AQ3 AQ3TS931 567 296 45522.0 46956.3 1438.3 51.10 2.6953 2.7610 .0657 2235.1205 29.3944 628.658 284.095  
 12-16-86 AQ3 AQ3TS932 567 303 46956.3 48391.7 1433.4 50.70 2.6590 2.8165 .1573 2162.8814 72.8195 630.301 276.460  
 12-22-86 AQ3 AQ3TS933 567 314 48391.3 49826.5 1439.2 53.50 2.6956 2.8492 .1536 2483.357 61.8518 629.539 275.290  
 12-28-86 AQ3 AQ3TS934 567 330 49826.5 51261.1 1435.6 43.00 2.6953 2.7659 .0696 1907.3991 36.4895 630.174 274.720  
 MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 30.9435

01-03-87 AQ3 AQ3TS935 567 336 51261.1 52786.2 1437.1 41.80 2.8560 2.9093 .0533 1846.3814 28.8673 627.456 273.370  
 01-09-87 AQ3 AQ3TS936 567 349 52786.2 54221.0 1434.8 43.80 2.8340 2.9120 .078 1947.9511 40.042 627.761 272.000  
 01-15-87 AQ3 AQ3TS937 567 361 54221.0 55656.5 1433.5 44.90 2.7694 2.7978 .0284 2022.4636 14.0423 627.329 283.210  
 01-21-87 AQ3 AQ3TS938 567 372 55656.5 57091.8 1434.3 43.60 2.9314 3.0044 .077 1943.3307 39.6227 626.026 289.830  
 01-27-87 AQ3 AQ3TS939 567 383 57091.8 58526.0 1437.2 42.10 2.9238 2.9747 .0509 1832.8188 27.7714 626.821 283.080  
 MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 28.2065

02-02-87 AQ3 AQ3TS940 567 395 58526.0 59961.8 1436.8 42.20 2.9232 2.9863 .0611 1824.7411 33.4042 622.808 284.865  
 02-08-87 AQ3 AQ3TS941 567 408 59961.8 61402.0 1437.2 44.50 2.8250 2.9012 .0762 1963.9402 38.768 631.698 278.565  
 02-14-87 AQ3 AQ3TS942 567 418 61402.0 62837.4 1437.4 44.00 2.8342 2.8782 .044 1931.1617 22.7842 620.014 276.630  
 02-20-87 AQ3 AQ3TS943 567 432 62837.4 64274.5 1435.1 45.10 2.8116 2.8655 .0569 2012.8837 28.2679 628.650 271.195  
 02-26-87 AQ3 AQ3TS944 567 446 64274.5 65709.8 1435.3 44.70 2.8157 2.8418 .0661 1994.7457 13.0844 623.062 268.765  
 MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 28.374

03-04-87 AQ3 AQ3TS945 567 450 65709.8 67145.3 1435.5 44.20 2.8344 2.9134 .081 1936.5789 41.8263 633.222 282.840  
 03-10-87 AQ3 AQ3TS946 567 470 67145.3 68580.8 1435.5 43.70 2.7955 2.8689 .0734 2029.0668 36.1743 629.158 274.535  
 03-16-87 AQ3 AQ3TS947 567 482 68580.8 69961.8 1435.5 43.90 2.7812 2.7900 .0088 2002.9188 4.3536 620.268 279.900  
 03-22-87 AQ3 AQ3TS948 567 502 69961.8 71396.5 1433.3 48.20 2.7791 2.7973 .0182 2132.1072 8.5362 629.920 277.039  
 MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 13.4342

04-03-87 AQ3 AQ3TS950 567 513 71396.5 72831.6 1435 45.50 2.7842 2.8255 .0413 2001.4968 28.6346 628.320 279.260  
 04-09-87 AQ3 AQ3TS951 567 522 72831.6 74266.7 1432.9 44.70 2.8113 2.8943 .063 1946.1079 42.6492 625.805 282.205  
 04-15-87 AQ3 AQ3TS952 567 537 74266.7 75701.8 1435.1 44.50 2.8171 2.8841 .087 1915.1317 34.9845 627.431 290.080  
 04-21-87 AQ3 AQ3TS953 567 548 75701.8 77136.9 1433.3 44.30 2.8434 2.8904 .047 1916.0483 24.5297 633.457 290.185  
 04-27-87 AQ3 AQ3TS954 567 557 77136.9 78571.8 1433 45.10 2.7712 2.8360 .0648 1961.3009 33.0359 633.838 287.350  
 MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 30.1387

05-03-87 AQ3 AQ3TS955 567 568 78571.8 79961.8 1433.4 45.8 2.7869 2.8033 .0164 2005.3004 6.1773 628.904 281.14  
 05-09-87 AQ3 AQ3TS956 567 579 79961.8 81396.5 1433.7 44.3 2.8083 2.8678 .0595 1901.1387 31.297 627.253 290.94  
 05-15-87 AQ3 AQ3TS957 567 590 81396.5 82831.6 1434.9 44.0 2.7619 2.8193 .0754 1878.506 30.549 629.285 295.005  
 05-21-87 AQ3 AQ3TS958 567 605 82831.6 84266.7 1434.4 42.3 2.8123 2.8829 .0106 1944.4583 5.7468 628.523 282.01  
 MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 28.2065

Equipment failure

[illegible]

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STA.ID... STA. ID...
SAMPLE.ND... SAMPLE.ND...
SAMPLER.ND... SAMPLER.ND...
INIT.TIME... INIT.TIME...
FINAL.TIME... FINAL.TIME...
FLOW... FLOW...
INIT.VT... INIT.VT...
FINAL.VT... FINAL.VT...
NET.WT... NET.WT...
PRESSURE... PRESSURE...
TSP... TSP...
COMMENTS... COMMENTS...

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[illegible]

DATE..... STA. ID. .... SAMPLE NO. .... SWAGED NO. .... FILTERED NO. .... INIT. TIME. .... FINAL TIME. .... ELAPS. TIME. .... FLOW. .... INIT. WT. .... FINAL WT. .... CONC. .... PRESSURE. .... TEMP. .... COMMENTS. ....

[illegible]

TOP DATA 23 JUL 1973

DATE..... STA. ID.. SAMPLE NO..... SAMPLE NO..... FILTER NO... INIT. TIME... FINAL TIME... ELAPSE TIME... P.L.D..... INIT. WT..... FINAL WT..... CONC..... PRESSURE... TEMP..... COMMENTS.....

02-08-07 A05 A051941 575 409 30073.9 31523.4 1443.5 44.30 2.8308 2.1354 .1046 2003.9639 52.1563 631.698 278.563  
02-11-07 A05 A051942 575 419 31523.4 32566.8 1443.4 44.50 2.8147 2.8648 .0601 2001.2221 25.0347 628.014 276.530  
02-20-07 A05 A051943 575 433 32566.8 34492.8 1443 43.70 2.8232 2.9419 .1017 2006.53 44.7412 628.650 271.195  
02-25-07 A05 A051944 575 443 34492.8 35692.7 1442.9 46.10 2.8227 2.8509 .0282 2104.1338 13.4082 623.062 264.765

MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 33.6

03-04-07 A05 A051945 575 451 35692.7 37255.9 1443.2 44.20 2.8155 2.9625 .147 1986.8303 73.9872 633.222 282.040  
03-10-07 A05 A051946 575 467 37255.9 38735.1 1443.2 46.10 2.8195 2.9590 .1395 2092.8102 66.6568 625.158 274.555  
03-16-07 A05 A051947 575 476 38735.1 40182.3 1443.2 46.60 2.8098 2.8291 .0193 2098.8478 9.1955 628.014 274.825  
03-22-07 A05 A051948 575 497 40182.3 41625.3 1443 46.10 2.8034 2.8163 .0129 2028.8641 6.2636 628.268 275.500  
03-28-07 A05 A051949 575 505 41625.3 43068.3 1444 47.80 2.7781 2.8024 .0243 2164.5386 11.2472 625.920 277.039

MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 19.994

04-03-07 A05 A051950 575 515 43068.3 44512.3 1443 45.50 2.7907 2.8782 .0875 2047.925 42.7682 628.320 275.560  
04-09-07 A05 A051951 575 524 44512.3 45955.1 1442.8 46.00 2.8193 2.9161 .0958 2054.9402 47.106 625.805 282.205  
04-15-07 A05 A051952 575 538 45955.1 47398.8 1441.7 46.0 2.8157 2.8905 .0748 2028.6381 36.872 627.431 290.08  
04-21-07 A05 A051953 575 550 47398.8 48841.6 1442.1 45.80 2.8538 2.9232 .0714 2042.5823 34.9288 635.838 287.520  
04-27-07 A05 A051954 575 558 48841.6 51784.7 1442.1 45.80 2.8538 2.9232 .0714 2042.5823 34.9288 635.838 287.520

MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 44.135

05-03-07 A05 A051955 575 569 51784.7 53167.4 1442.7 45.4 2.7746 2.7884 .0138 2037.4432 6.7732 628.904 281.14  
05-09-07 A05 A051956 575 580 53167.4 54609.3 1441.9 45.2 2.7942 2.8549 .0607 1953.9538 30.442 627.253 290.25  
05-15-07 A05 A051957 575 591 54609.3 56051.1 1441.6 45.2 2.7535 2.8377 .0842 1997.607 42.1504 628.285 290.005  
05-21-07 A05 A051958 575 609 56051.1 57493.1 1442.6 45.8 2.8365 2.8482 .0117 2028.9919 5.7046 628.523 282.01  
05-27-07 A05 A051959 575 613 57493.1 58935.3 1442.2 43.3 2.9446 3.0098 .0632 1918.1286 33.9915 622.173 286.455

MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 17.587

06-02-07 A05 A051960 575 625 58935.3 60378.3 1440 40.1 2.6835 2.7719 .0864 1781.1353 48.5044 629.666 289.05  
06-08-07 A05 A051961 575 635 60378.3 61820.6 1443.5 42.2 2.8254 2.9664 .071 1871.5843 37.9677 630.386 290.495

MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 42.893

06-13-06 A05 A051961 563 10 1405.3 2895.4 1440 39.50 2.9211 2.9935 .0744 1773.4021 41.9533 625.920 288.720  
06-19-06 A05 A051962 563 13 2895.4 4338.0 1441.6 41.00 2.9499 3.0089 .059 1817.6149 32.4601 627.634 296.320  
06-25-06 A05 A051963 563 17 4338.0 4881.1 1442.9 42.3 2.9623 3.0356 .1123 1891.5734 38.3606 630.381 292.630

MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 36.987

07-01-06 A05 A051964 563 19 4881.1 7451.1 1438.4 42.3 2.9623 3.0356 .1123 1891.5734 38.3606 630.381 292.630  
07-07-06 A05 A051965 563 23 7451.1 8994.2 1442.8 40.00 2.9900 2.9945 .0435 1799.9463 25.2785 634.744 291.060  
07-13-06 A05 A051966 563 27 8994.2 10537.3 1446.3 40.42 2.9294 2.9721 .0437 1804.1154 24.2224 631.199 291.280  
07-19-06 A05 A051967 563 31 10537.3 12080.4 1448.4 42.3 2.9233 3.0356 .1123 1891.5734 38.3606 630.381 292.630

MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 33.1255

08-05-06 A05 A051968 563 35 12080.4 13623.5 1442.8 40.00 2.9900 2.9945 .0435 1799.9463 25.2785 634.744 291.060  
08-11-06 A05 A051969 563 39 13623.5 15166.6 1446.3 40.42 2.9294 2.9721 .0437 1804.1154 24.2224 631.199 291.280  
08-17-06 A05 A051970 563 43 15166.6 16709.7 1448.4 42.3 2.9233 3.0356 .1123 1891.5734 38.3606 630.381 292.630  
08-23-06 A05 A051971 563 47 16709.7 18252.8 1452.9 42.3 2.9233 3.0356 .1123 1891.5734 38.3606 630.381 292.630

MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 0

Equipment failure

Equipment failure

Equipment failure  
Equipment failure  
Equipment failure

Equipment failure  
Equipment failure  
Equipment failure  
Equipment failure

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DATE..... STA ID.. SAMPLE NO..... SAMPLER NO..... FILTER NO... FINISH TIME... BLANK TIME... PUMP VOLUME... CONC..... CORR..... TEMP.....
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[illegible]

DATE	DESCRIPTION	AMOUNT	CHECK NO.	BANK	ACCOUNT	REMARKS
10-05-86	10-05-86	100.00	100	100	100	100
10-11-86	10-11-86	100.00	101	101	101	101
10-17-86	10-17-86	100.00	102	102	102	102
10-23-86	10-23-86	100.00	103	103	103	103
10-29-86	10-29-86	100.00	104	104	104	104
11-05-86	11-05-86	100.00	105	105	105	105
11-11-86	11-11-86	100.00	106	106	106	106
11-17-86	11-17-86	100.00	107	107	107	107
11-23-86	11-23-86	100.00	108	108	108	108
11-29-86	11-29-86	100.00	109	109	109	109
12-05-86	12-05-86	100.00	110	110	110	110
12-11-86	12-11-86	100.00	111	111	111	111
12-17-86	12-17-86	100.00	112	112	112	112
12-23-86	12-23-86	100.00	113	113	113	113
12-29-86	12-29-86	100.00	114	114	114	114
01-05-87	01-05-87	100.00	115	115	115	115
01-11-87	01-11-87	100.00	116	116	116	116
01-17-87	01-17-87	100.00	117	117	117	117
01-23-87	01-23-87	100.00	118	118	118	118
01-29-87	01-29-87	100.00	119	119	119	119
02-05-87	02-05-87	100.00	120	120	120	120
02-11-87	02-11-87	100.00	121	121	121	121
02-17-87	02-17-87	100.00	122	122	122	122
02-23-87	02-23-87	100.00	123	123	123	123
02-29-87	02-29-87	100.00	124	124	124	124
03-05-87	03-05-87	100.00	125	125	125	125
03-11-87	03-11-87	100.00	126	126	126	126
03-17-87	03-17-87	100.00	127	127	127	127
03-23-87	03-23-87	100.00	128	128	128	128
03-29-87	03-29-87	100.00	129	129	129	129
04-05-87	04-05-87	100.00	130	130	130	130
04-11-87	04-11-87	100.00	131	131	131	131
04-17-87	04-17-87	100.00	132	132	132	132
04-23-87	04-23-87	100.00	133	133	133	133
04-29-87	04-29-87	100.00	134	134	134	134
05-05-87	05-05-87	100.00	135	135	135	135
05-11-87	05-11-87	100.00	136	136	136	136
05-17-87	05-17-87	100.00	137	137	137	137
05-23-87	05-23-87	100.00	138	138	138	138
05-29-87	05-29-87	100.00	139	139	139	139
06-05-87	06-05-87	100.00	140	140	140	140
06-11-87	06-11-87	100.00	141	141	141	141
06-17-87	06-17-87	100.00	142	142	142	142
06-23-87	06-23-87	100.00	143	143	143	143
06-29-87	06-29-87	100.00	144	144	144	144
07-05-87	07-05-87	100.00	145	145	145	145
07-11-87	07-11-87	100.00	146	146	146	146
07-17-87	07-17-87	100.00	147	147	147	147
07-23-87	07-23-87	100				

[illegible][illegible][illegible][illegible][illegible]

TOP DATA 25 JUL 1968

DATE..... STA. ID. SAMPLE NO. .... FILTER NO. .... INT. TIME.... FLOW TIME... BLANK TIME... FLOW TIME... NET WT.... VOLUME..... CONC..... PRESSURE... TEMP..... COMMENTS.....

04-03-67 005 A0519P00 316 4638.0 4778.7 144.7 44.30 2.7141 2.8776 .0035 1594.4442 27.8046 628.269 278.269  
 04-09-67 005 A0519P01 325 4778.7 4928.7 144.0 43.00 2.8157 2.8555 .0082 1643.62 43.5014 625.885 282.265  
 04-15-67 005 A0519P02 339 4628.7 5077.6 143.9 42.20 2.8236 2.8617 .0581 1794.3458 31.4401 627.431 290.009  
 04-21-67 005 A0519P03 343 5067.6 5218.6 143.9 43.70 2.8024 2.8547 .0023 1864.9777 28.1025 635.457 290.185  
 04-27-67 005 A0519P04 359 5218.6 5353.4 143.8 43.70 2.8520 2.9130 .0020 1878.0747 31.0146 635.638 287.329  
 MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 31.2848

05-03-67 005 A0519P05 370 5353.4 5494.5 143.1 44.9 2.7820 2.7965 .0135 1946.4662 6.987 628.994 281.14  
 05-09-67 005 A0519P06 381 5494.5 5642.8 143.3 44.8 2.7928 2.8171 .0543 1892.7542 28.6894 627.253 290.94  
 05-15-67 005 A0519P07 392 5642.8 5785.7 143.2 44.7 2.7800 2.8169 .0059 1908.5712 25.8129 628.285 290.085  
 05-21-67 005 A0519P08 614 6129.8 6284.9 134.1 43.9 2.9518 3.0148 .0053 1748.4215 35.8225 622.173 286.425  
 MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 21.5914

06-02-67 005 A0519P09 345 6274.9 6417.2 144.3 45.8 2.6406 2.7300 .0094 1951.8878 45.5244 629.666 292.05  
 06-08-67 005 A0519P10 343 6481.7 6624.2 143.5 45.6 2.7735 2.8463 .0727 1943.4758 37.4072 630.386 290.495  
 MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 41.2865

ANNUAL GEOMETRIC AVERAGE CONCENTRATION = 31.6686

06-13-66 007 A0719P1 366 12.0 1477.6 145.5 37.54 2.9022 2.9569 .0947 1601.5212 50.1313 628.269 295.160  
 06-19-66 007 A0719P2 366 3217.8 4694.0 145.2 37.20 2.9003 2.9397 .0394 1606.9209 24.5184 634.794 291.060  
 06-25-66 007 A0719P3 366 4694.0 6149.7 145.7 36.81 2.9254 2.9746 .0462 1578.8909 25.851 631.190 293.280  
 06-31-66 007 A0719P4 366 6149.7 7615.7 146 36.57 2.9022 2.9621 .1069 1572.7928 67.9251 630.381 292.630  
 MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 41.281  
 Power failure  
 No power  
 Power failure

07-01-66 007 A0719P5 366 7615.7 9081.9 145.2 36.57 2.9555 2.9824 .0929 1552.3286 61.3423 628.266 295.695  
 07-07-66 007 A0719P6 366 9081.9 10530.5 145.9 37.71 2.9258 2.9918 .069 1616.6914 42.6798 628.100 293.570  
 07-13-66 007 A0719P7 366 10530.5 12018.0 147.5 43.54 2.9241 2.9855 .1133 1826.6733 56.2256 631.910 290.645  
 07-19-66 007 A0719P8 366 12018.0 13494.8 146.8 44.75 2.9274 2.9871 .0397 1917.4721 26.7043 628.472 294.050  
 07-25-66 007 A0719P9 366 13494.8 14969.5 146.7 44.57 2.8940 2.9633 .0893 1916.394 46.5953 628.269 292.390  
 MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 42.7041  
 Power failure  
 Power failure

08-02-66 007 A0719P10 366 14969.5 16416.8 147.4 44.25 2.9278 2.9878 .0925 1907.2808 46.9779 630.000 291.515  
 08-08-66 007 A0719P11 366 16416.8 17881.2 146.4 44.88 2.9825 2.9977 .0772 1941.6282 35.7604 628.320 287.590  
 08-14-66 007 A0719P12 366 17881.2 19347.4 146.2 44.38 2.9142 2.9875 .1133 1904.2506 55.4972 625.491 290.980  
 08-20-66 007 A0719P13 366 19347.4 20812.8 145.4 44.38 2.8942 2.9709 .0767 1907.0823 46.2198 625.433 289.350  
 08-26-66 007 A0719P14 366 20812.8 22273.2 146.4 45.60 2.8857 2.9525 .0469 1983.5127 24.6332 627.269 294.810  
 MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 44.2911

09-02-66 007 A0719P15 366 22273.2 23744.9 145.7 45.00 2.9970 2.9476 .0206 1972.6941 15.5572 632.041 282.390  
 09-08-66 007 A0719P16 366 23744.9 25210.6 145.7 46.20 2.8785 2.8941 .0126 2152.5603 7.1974 630.758 281.490  
 09-14-66 007 A0719P17 366 25210.6 26677.8 146.4 46.00 2.8975 2.9608 .1012 1955.3595 54.7182 628.777 287.090  
 09-20-66 007 A0719P18 366 26677.8 28121.3 145.2 44.80 2.7423 2.8144 .0719 1983.1465 35.5132 631.360 290.235  
 09-26-66 007 A0719P19 366 28121.3 29588.9 145.8 46.10 2.7345 2.8640 .1315 2016.5361 65.2168 631.922 283.250  
 MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 44.2911

10-02-66 007 A0719P20 366 29588.9 31055.1 145.8 46.10 2.7345 2.8640 .1315 2016.5361 65.2168 631.922 283.250  
 10-08-66 007 A0719P21 366 31055.1 32521.6 145.7 46.20 2.8785 2.8941 .0126 2152.5603 7.1974 630.758 281.490  
 10-14-66 007 A0719P22 366 32521.6 33988.9 146.4 46.00 2.8975 2.9608 .1012 1955.3595 54.7182 628.777 287.090  
 10-20-66 007 A0719P23 366 33988.9 35455.1 145.2 44.80 2.7423 2.8144 .0719 1983.1465 35.5132 631.360 290.235  
 10-26-66 007 A0719P24 366 35455.1 36921.6 145.8 46.10 2.7345 2.8640 .1315 2016.5361 65.2168 631.922 283.250  
 MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 44.2911

11-02-66 007 A0719P25 366 36921.6 38388.9 145.8 46.10 2.7345 2.8640 .1315 2016.5361 65.2168 631.922 283.250  
 11-08-66 007 A0719P26 366 38388.9 39855.1 145.7 46.20 2.8785 2.8941 .0126 2152.5603 7.1974 630.758 281.490  
 11-14-66 007 A0719P27 366 39855.1 41321.6 146.4 46.00 2.8975 2.9608 .1012 1955.3595 54.7182 628.777 287.090  
 11-20-66 007 A0719P28 366 41321.6 42788.9 145.2 44.80 2.7423 2.8144 .0719 1983.1465 35.5132 631.360 290.235  
 11-26-66 007 A0719P29 366 42788.9 44255.1 145.8 46.10 2.7345 2.8640 .1315 2016.5361 65.2168 631.922 283.250  
 MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 44.2911

DATE: 10/2/98 TIME: 10:51/AM



199 DATA 29 JUL 1988

DATE..... STA. ID., SAMPLE NO....., SAMPLER NO., FILTER NO., INIT. TIME...., FINAL TIME...., BLASP. TIME...., FLOW....., INIT. WT....., FINAL WT....., VOLUME....., CONC....., MEASURE....., TEMP....., COMMENTS.....															
06-06-87	007	00715940	566	627	01393.0	03464.8	03464.8	40.6	2.6373	2.7188	.0815	1753.6466	46.4745	629.666	283.05
06-08-87	007	00715961	566	637	03464.8	04930.3	04930.3	39.7	2.8189	2.8860	.0671	1710.1782	38.2357	630.386	290.495
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 42.782															
ANNUAL GEOMETRIC AVERAGE CONCENTRATION = 33.0477															
06-13-86	008	0081591	564	9	11.2	1462.2	1461	40.30	2.8923	2.9711	.0788	1741.6682	45.8441	629.939	288.739
06-15-86	008	0081592	564	—	—	—	—	—	—	—	—	—	—	—	—
06-25-86	008	0081593	564	24	2911.7	4363.4	4363.4	40.30	2.9123	2.9830	.0727	1730.1843	42.0186	627.338	288.945
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 43.6016															
07-01-86	008	0081594	564	28	4363.4	5812.9	5812.9	39.33	2.9405	2.9903	.0897	1678.9066	53.4087	630.889	293.125
07-07-86	008	0081595	564	43	5812.9	7653.2	7653.2	38.83	2.9116	2.9531	.0615	1659.6568	51.0305	631.266	293.765
07-13-86	008	0081596	564	60	7653.2	8715.1	8715.1	40.34	2.8958	2.9029	.0661	1740.8533	60.9577	628.389	293.160
07-19-86	008	0081597	564	70	10218.1	11670.2	11670.2	40.30	2.9159	2.9368	.0429	1734.3079	64.7361	634.794	291.660
07-25-86	008	0081598	564	82	11670.2	13122.2	13122.2	39.46	2.8976	2.9404	.0508	1688.7257	58.0819	631.190	293.280
07-31-86	008	0081599	564	76	13122.2	14575.4	14575.4	39.21	2.9369	2.9453	.1124	1680.4076	64.8853	630.301	292.630
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 41.3915															
08-06-86	008	00815910	564	96	14575.4	16065.6	16065.6	39.08	2.8976	2.9272	.1236	1662.0666	77.9792	628.396	293.035
08-12-86	008	00815911	564	104	16065.6	17478.0	17478.0	39.42	2.9149	2.9382	.0833	1681.6194	69.5397	628.180	293.570
08-18-86	008	00815912	564	113	17478.0	18930.2	18930.2	38.88	2.8909	2.9083	.0974	1651.5079	58.9735	631.910	296.645
08-24-86	008	00815913	564	130	18930.2	20381.9	20381.9	45.21	2.9440	2.9336	.0496	2082.1414	23.8216	628.472	294.020
08-30-86	008	00815914	564	131	20381.9	21835.3	21835.3	45.58	2.9342	2.9379	.1037	2105.2705	45.2573	628.359	292.390
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 48.4613															
09-05-86	008	00815915	564	145	21835.3	23287.9	23287.9	44.38	2.8922	2.9311	.0989	2060.4325	47.9995	630.600	291.515
09-11-86	008	00815916	564	—	—	—	—	—	—	—	—	—	—	—	—
09-17-86	008	00815917	564	158	24570.3	26025.1	26025.1	44.50	2.9114	2.9148	.1034	2082.6715	49.6478	626.491	290.980
09-23-86	008	00815918	564	163	26025.1	27479.3	27479.3	45.30	2.9643	2.9060	.0817	2095.4021	38.9128	625.433	288.350
09-29-86	008	00815919	564	183	27479.3	28933.4	28933.4	51.20	2.9032	2.9378	.0644	2082.1266	29.2445	627.329	284.810
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 40.2816															
10-05-86	008	00815920	564	185	28933.4	30382.2	30382.2	50.50	2.9369	2.9782	.0893	2008.3346	17.7962	632.841	282.590
10-11-86	008	00815921	564	193	30382.2	31847.9	31847.9	52.50	2.8172	2.8472	.03	2314.9023	12.9095	630.728	271.490
10-17-86	008	00815922	564	201	31847.9	33304.1	33304.1	51.40	2.7389	2.8078	.0798	2204.5468	34.3835	628.777	287.090
10-23-86	008	00815923	564	206	33304.1	34831.4	34831.4	51.50	2.7857	2.7898	.0631	2258.0851	27.944	631.360	280.235
10-29-86	008	00815924	564	216	35008.9	37654.9	37654.9	51.90	2.7375	2.8643	.1388	2243.9467	38.2982	631.922	283.350
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 26.4388															
11-04-86	008	00815925	564	224	37654.9	38782.2	38782.2	50.50	2.7894	2.8065	.0791	1354.4339	38.4008	629.989	278.540
11-10-86	008	00815926	564	242	38782.2	40177.7	40177.7	42.00	2.7466	2.8099	.0613	1886.9166	32.4859	630.488	284.810
11-16-86	008	00815927	564	—	—	—	—	—	—	—	—	—	—	—	—
11-22-86	008	00815928	564	261	41633.9	43088.5	43088.5	45.50	2.8439	2.9042	.0892	1986.6095	29.7995	625.987	277.039
11-28-86	008	00815929	564	269	43088.8	44542.7	44542.7	43.70	2.7709	2.8522	.0583	1895.1966	30.762	629.285	282.970
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 36.3153															
12-04-86	008	00815930	564	285	44542.7	46000.2	46000.2	46.00	2.8042	2.8787	.1945	2044.8046	55.1154	631.266	278.110
12-10-86	008	00815931	564	298	46000.2	47438.9	47438.9	46.60	2.5881	2.7777	.0896	2090.91	42.8282	628.638	284.095
12-16-86	008	00815932	564	307	47438.9	48917.7	48917.7	45.40	2.6043	2.8046	.1603	1996.6386	88.2771	630.301	276.460
12-22-86	008	00815933	564	—	—	—	—	—	—	—	—	—	—	—	—
12-28-86	008	00815934	564	—	—	—	—	—	—	—	—	—	—	—	—
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 41.3915															

Power failure

Equipment failure

Power failure  
Equipment failure

Equipment failure  
Equipment failure  
Equipment failure

MONTHLY SEDIMENTIC AVERAGE CONCENTRATION = 23.304

MONTHLY BENZOTIC ACID CONCENTRATION = 3.629

MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 19.32

MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 15.983

EQUIPMENT FAILURE

MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 15.4111

**1. The following are the names of the persons who have been appointed to the various committees of the Board of Directors:**

77-01-46 102 10271304 57

1

TOP DATA 23 JUL 1980

DATE..... STA. ID., SAMPLE NO.,..... SUPPLIER NO.,..... FILTER NO.,..... INT. TIME..... FLOW TIME..... ELAP. TIME..... FLOW..... INT. WT..... FLOW WT..... NET. WT..... VOLUME..... CONC..... PRESSURE..... TEMP..... COMMENTS.....

07-19-86	R09	R09TS97	577	71	10215.6	11668.6	1453	41.21	2.9163	2.9621	.0456	1736.6317	26.2374	634.704	291.060	
07-20-86	R09	R09TS98	577	81	11668.6	13122.6	1454	40.81	2.8618	2.9561	.0943	1707.5125	55.2263	631.190	291.280	
07-31-86	R09	R09TS99	577	90	13122.6	14575.3	1452.7	40.67	2.9243	3.0472	.1229	1700.413	72.2766	630.301	292.630	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 45.9606																
08-06-86	R09	R09TS910	577	95	14575.3	16026.0	1452.7	40.00	2.8994	2.9909	.0915	1658.0814	55.1843	628.356	293.695	
08-12-86	R09	R09TS911	577	110	16026.0	17400.0	1452	40.50	2.9540	3.0374	.0834	1685.8112	49.4717	628.100	293.570	
08-18-86	R09	R09TS912	577	114	17400.0	18534.0	1454	39.71	2.8976	2.9921	.1015	1642.6426	61.7892	631.910	298.645	
08-24-86	R09	R09TS913	---	---	---	---	---	---	---	---	---	---	---	---	---	Power failure
08-30-86	R09	R09TS914	---	---	---	---	---	---	---	---	---	---	---	---	---	Power failure
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 55.2537																
09-05-86	R09	R09TS915	577	146	18534.0	20386.1	1454.1	44.29	2.8951	2.9879	.0928	2049.9071	45.2703	630.000	291.515	
09-11-86	R09	R09TS916	577	150	20386.1	21841.2	1453.1	43.13	2.9189	2.9898	.0709	2098.9582	33.7787	628.520	287.590	
09-17-86	R09	R09TS917	577	159	21841.2	23295.7	1454.5	43.50	2.8966	2.9860	.0914	2101.0403	43.5023	628.491	290.980	
09-23-86	R09	R09TS918	---	---	---	---	---	---	---	---	---	---	---	---	---	Equipment failure
09-29-86	R09	R09TS919	---	---	---	---	---	---	---	---	---	---	---	---	---	Equipment failure
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 40.5187																
10-05-86	R09	R09TS920	579	168	23295.7	25861.3	1457.8	52.40	2.9193	2.9609	.0416	2585.7609	16.277	632.841	282.590	
10-11-86	R09	R09TS921	579	192	25861.3	4449.4	1461.1	53.30	2.8348	2.8608	.026	2732.449	9.429	630.758	271.490	
10-17-86	R09	R09TS922	579	200	4449.4	5908.2	1458.8	54.00	2.7302	2.7570	.0668	2607.4716	25.6187	628.777	287.090	
10-23-86	R09	R09TS923	579	207	5908.2	8398.2	1457	54.30	2.7276	2.7863	.0589	2657.0463	22.1675	631.360	290.235	
10-29-86	R09	R09TS924	579	218	8398.2	7882.8	1452.2	45.40	2.7570	2.8516	.0946	2151.4058	43.1293	631.952	283.550	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 20.6546																
11-04-86	R09	R09TS925	---	---	---	---	---	---	---	---	---	---	---	---	---	Equipment failure
11-10-86	R09	R09TS926	579	239	11314.7	12775.2	1450.5	47.40	2.7521	2.8021	.05	2394.5334	20.9645	630.428	284.810	
11-16-86	R09	R09TS927	579	251	12775.2	14232.8	1457.6	45.40	2.9170	2.9435	.0325	2184.3641	14.8785	622.808	283.760	
11-22-86	R09	R09TS928	579	263	14232.8	15690.6	1457.8	46.20	2.8305	2.8757	.0532	2237.3097	24.4539	625.907	277.030	
11-28-86	R09	R09TS929	579	268	15690.6	17147.8	1457.2	45.10	2.7892	2.8233	.0541	2183.6239	24.7753	628.285	282.570	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 3																
12-04-86	R09	R09TS930	579	287	17147.8	18607.5	1458.7	47.00	2.6662	2.8060	.1698	2094.4097	81.4619	631.266	270.110	
12-10-86	R09	R09TS931	579	300	18607.5	19771.7	1364.2	46.00	2.7109	2.7815	.0706	2011.7457	55.0939	628.658	264.095	
12-16-86	R09	R09TS932	579	309	19771.7	21430.8	1459.1	47.10	2.6684	2.8273	.1589	2060.9028	77.102	630.301	276.460	
12-22-86	R09	R09TS933	579	316	21474.5	22333.4	1455.9	54.60	2.6658	2.8384	.1526	2444.585	62.4237	629.539	275.290	
12-28-86	R09	R09TS934	579	332	22333.4	24333.3	1457.9	43.80	2.8902	2.9785	.0883	1905.0129	46.2513	630.174	274.780	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 37.6677																
01-03-87	R09	R09TS935	579	341	24333.3	25852.9	1458.6	44.30	2.7851	2.8425	.0574	1907.1383	30.0974	627.426	275.370	
01-09-87	R09	R09TS936	579	355	25852.9	27313.3	1460.4	44.70	2.7818	2.8732	.0914	1936.6332	47.1948	627.761	272.000	
01-15-87	R09	R09TS937	579	367	27313.3	28772.5	1459.2	44.60	2.9245	2.9613	.0568	1951.8889	16.8342	627.329	265.210	
01-21-87	R09	R09TS938	---	---	---	---	---	---	---	---	---	---	---	---	---	Equipment failure
01-27-87	R09	R09TS939	579	389	28849.8	30386.6	1458.6	43.30	2.9065	2.9598	.0533	1836.7029	25.0194	626.821	283.080	
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 25.6435																
02-02-87	R09	R09TS940	579	401	30386.6	31784.0	1457.3	43.30	2.8056	2.8718	.0642	1826.1536	36.2511	622.808	284.865	
02-08-87	R09	R09TS941	579	414	31784.0	33221.8	1457.8	43.70	2.8287	2.9027	.074	1875.6345	39.4533	631.698	278.565	
02-14-87	R09	R09TS942	579	424	33221.8	34673.3	1457.5	43.70	2.8257	2.8716	.0449	1864.7225	24.0785	629.014	276.630	
02-20-87	R09	R09TS943	579	429	34673.3	36137.6	1458.3	44.30	2.8243	2.8869	.0626	1921.2535	32.5829	628.650	271.195	
02-26-87	R09	R09TS944	579	439	36137.6	37586.3	1458.7	44.30	2.8193	2.8536	.0343	1921.8472	17.8474	623.862	268.765	

TRF DATA 23 JUL 1968

DATE..... STA. ID., SAMPLE NO.,..... SUPPLER NO.,..... FILTERED NO.,..... INIT. TIME,..... FLOW TIME,..... BLIND TIME,..... FLOW TIME,..... NET. WT.,..... CONC.,..... VOLUME,..... MEASURE,..... TEMP.,..... COMMENTS,.....

MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 28.0516

03-04-67	R09	R07TS945	579	456	37956.3	39055.2	1458.9	42.80	2.8176	2.8950	.0004	1824.3609	43.9694	633.222	282.040
03-10-67	R09	R07TS946	579	461	39055.2	40514.0	1458.8	42.90	2.8193	2.8955	.076	1853.1833	41.0105	629.156	274.535
03-16-67	R09	R07TS947	579	481	40514.0	41972.8	1458.8	43.00	2.7879	2.8030	.0151	1843.4446	4.1912	620.014	274.625
03-22-67	R09	R07TS948	579	492	41972.8	43431.9	1458.1	43.80	2.7787	2.7959	.0172	1860.715	9.2438	620.266	279.900
03-28-67	R09	R07TS949	579	485	43431.9	44890.4	1458.5	43.60	2.7878	2.8095	.0217	1874.8132	11.5745	624.920	277.039

MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 17.3579

04-03-67	R09	R07TS950	579	509	44890.4	46346.3	1458.9	42.60	2.7954	2.8483	.0519	1820.973	28.3012	628.320	274.260
04-09-67	R09	R07TS951	579	528	46346.3	47804.0	1457.7	42.60	2.8348	2.9121	.0773	1810.5743	42.6936	625.805	282.205
04-15-67	R09	R07TS952	579	535	47804.0	49262.6	1458.6	41.70	2.8367	2.8934	.0567	1753.6527	32.3288	627.431	290.060
04-21-67	R09	R07TS953	579	550	49262.6	50720.0	1457.4	45.10	2.8389	2.8913	.0824	1900.6609	27.5694	635.457	290.185
04-27-67	R09	R07TS954	579	563	50720.0	52176.9	1456.9	41.70	2.8389	2.8937	.0548	1770.5347	30.9511	635.838	287.520

MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 32.0025

05-03-67	R09	R07TS955	579	574	52176.9	53634.0	1457.1	49.5	2.7994	2.7719	.0116	2161.3217	5.3671	624.904	281.14
05-09-67	R09	R07TS956	579	585	53634.0	55080.0	1446	41.9	2.7897	2.8497	.06	1729.7053	34.688	627.253	290.94
05-15-67	R09	R07TS957	---	---	---	---	---	---	---	---	---	---	---	---	EQUIPMENT FAILURE
05-21-67	R09	R07TS958	579	599	55135.7	56621.5	1455.8	41.9	2.7924	2.8058	.0134	1784.024	7.4943	628.523	282.01
05-27-67	R09	R07TS959	579	618	56621.5	58066.6	1455.1	41.9	2.8132	2.8733	.0581	1760.2946	33.0072	622.173	286.455

MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 14.6492

06-02-67	R09	R07TS960	579	630	58066.6	59552.1	1455.3	41.3	3.0380	3.1177	.0797	1733.7582	45.9635	629.666	289.05
06-08-67	R09	R07TS961	579	640	61017.8	62483.5	1455.7	42.5	2.7894	2.7832	.0738	1782.7461	41.2349	630.386	290.495

MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 43.5379

06-13-66	R010	R010TS91	578	3	1499.4	2955.6	1457.2	42.40	2.8946	2.9839	.0913	1817.2209	50.2416	629.920	288.730
06-19-66	R010	R010TS92	---	---	---	---	---	---	---	---	---	---	---	---	
06-25-66	R010	R010TS93	---	---	---	---	---	---	---	---	---	---	---	---	

MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 50.6416

07-01-66	R010	R010TS94	578	38	2955.7	4412.3	1455.6	40.30	2.9119	3.0007	.0888	1716.3912	51.7365	630.089	293.125
07-07-66	R010	R010TS95	578	48	4412.4	5867.6	1455.2	41.23	2.9142	2.9615	.0473	1753.6923	26.9717	631.266	293.763
07-13-66	R010	R010TS96	578	54	5867.6	7311.5	1443.9	40.36	2.9195	3.0358	.1163	1697.0808	68.5294	628.320	295.160
07-19-66	R010	R010TS97	---	---	---	---	---	---	---	---	---	---	---	---	
07-25-66	R010	R010TS98	578	78	8117.1	9574.0	1456.9	40.38	2.8970	2.9494	.0294	1722.2067	30.4261	631.190	293.280
07-31-66	R010	R010TS99	578	86	9574.0	11029.5	1455.5	40.67	2.9365	3.0590	.1225	1733.0966	70.6827	630.301	292.630

MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 45.9863

08-06-66	R010	R010TS910	578	101	11029.6	12485.0	1455.4	41.08	2.9266	3.0216	.095	1728.4947	94.645	628.396	295.695
08-12-66	R010	R010TS911	578	108	12485.1	13931.9	1446.8	41.38	2.9099	2.9779	.068	1770.1371	38.4151	628.100	293.570
08-18-66	R010	R010TS912	---	---	---	---	---	---	---	---	---	---	---	---	
08-24-66	R010	R010TS913	---	---	---	---	---	---	---	---	---	---	---	---	
08-30-66	R010	R010TS914	578	140	14026.7	15511.7	1455	45.46	2.8945	2.9810	.0865	1926.4252	44.9018	628.320	292.990

MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 45.5098

09-05-66	R010	R010TS915	---	---	---	---	---	---	---	---	---	---	---	---
09-11-66	R010	R010TS916	---	---	---	---	---	---	---	---	---	---	---	---

Equipment failure  
Equipment failure

DATE.....	STA. ID.....	SAMPLE NO.....	FILTER NO.....	INIT. TIME.....	FINAL TIME.....	BLANK TIME.....	INIT. WT.....	FINAL WT.....	VOLUME.....	CONC.....	MEASURE.....	TEST.....	COMMENTS.....
09-17-86	R210	R210TS17	---	---	---	---	---	---	---	---	---	---	Equipment failure
09-23-86	R210	R210TS18	---	---	---	---	---	---	---	---	---	---	Equipment failure
09-29-86	R210	R210TS19	---	---	---	---	---	---	---	---	---	---	Equipment failure
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 0													
10-05-86	R210	R210TS20	---	---	---	---	---	---	---	---	---	---	Equipment failure
10-11-86	R210	R210TS21	---	---	---	---	---	---	---	---	---	---	Equipment failure
10-17-86	R210	R210TS22	---	---	---	---	---	---	---	---	---	---	Equipment failure
10-23-86	R210	R210TS23	---	---	---	---	---	---	---	---	---	---	Equipment failure
10-29-86	R210	R210TS24	---	---	---	---	---	---	---	---	---	---	Equipment failure
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 0													
11-04-86	R210	R210TS25	---	---	---	---	---	---	---	---	---	---	Equipment failure
11-10-86	R210	R210TS26	---	---	---	---	---	---	---	---	---	---	Equipment failure
11-16-86	R210	R210TS27	---	---	---	---	---	---	---	---	---	---	Equipment failure
11-22-86	R210	R210TS28	---	---	---	---	---	---	---	---	---	---	Equipment failure
11-28-86	R210	R210TS29	---	---	---	---	---	---	---	---	---	---	Equipment failure
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 0													
12-04-86	R210	R210TS30	---	---	---	---	---	---	---	---	---	---	Equipment failure
12-10-86	R210	R210TS31	---	---	---	---	---	---	---	---	---	---	Equipment failure
12-16-86	R210	R210TS32	---	---	---	---	---	---	---	---	---	---	Equipment failure
12-22-86	R210	R210TS33	---	---	---	---	---	---	---	---	---	---	Equipment failure
12-28-86	R210	R210TS34	---	---	---	---	---	---	---	---	---	---	Equipment failure
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 0													
01-03-87	R210	R210TS35	---	---	---	---	---	---	---	---	---	---	Equipment failure
01-09-87	R210	R210TS36	---	---	---	---	---	---	---	---	---	---	Equipment failure
01-15-87	R210	R210TS37	---	---	---	---	---	---	---	---	---	---	Equipment failure
01-21-87	R210	R210TS38	---	---	---	---	---	---	---	---	---	---	Equipment failure
01-27-87	R210	R210TS39	---	---	---	---	---	---	---	---	---	---	Equipment failure
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 0													
02-02-87	R210	R210TS40	---	---	---	---	---	---	---	---	---	---	Equipment failure
02-08-87	R210	R210TS41	---	---	---	---	---	---	---	---	---	---	Equipment failure
02-14-87	R210	R210TS42	---	---	---	---	---	---	---	---	---	---	Equipment failure
02-20-87	R210	R210TS43	---	---	---	---	---	---	---	---	---	---	Equipment failure
02-26-87	R210	R210TS44	---	---	---	---	---	---	---	---	---	---	Equipment failure
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 0													
03-04-87	R210	R210TS45	---	---	---	---	---	---	---	---	---	---	Equipment failure
03-10-87	R210	R210TS46	---	---	---	---	---	---	---	---	---	---	Equipment failure
03-16-87	R210	R210TS47	---	---	---	---	---	---	---	---	---	---	Equipment failure
03-22-87	R210	R210TS48	568	49%	20465.5	1454.1	46.40	2.7864	2.7986	.0122	5.9348	630.268	279.900
03-28-87	R210	R210TS49	---	---	---	---	---	---	---	---	---	---	Equipment failure
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 5.9348													
04-03-87	R210	R210TS50	---	---	---	---	---	---	---	---	---	---	Equipment failure
04-09-87	R210	R210TS51	---	---	---	---	---	---	---	---	---	---	Equipment failure
04-15-87	R210	R210TS52	---	---	---	---	---	---	---	---	---	---	Equipment failure
04-21-87	R210	R210TS53	---	---	---	---	---	---	---	---	---	---	Equipment failure
04-27-87	R210	R210TS54	---	---	---	---	---	---	---	---	---	---	Equipment failure

DATE..... STA. ID.. SAMPLE NO..... FILTER NO... INIT. TIME.... ELAP. TIME... FINL. TIME.... FINL. WT.... NET. WT.... VOLUME..... CONC..... PRESSURE... TEMP..... COMMENTS.....

MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 28.8616

DATE	STA. ID.	SAMPLE NO.	FILTER NO.	INIT. TIME	ELAP. TIME	FINL. TIME	FINL. WT.	NET. WT.	VOLUME	CONC.	PRESSURE	TEMP.	COMMENTS		
03-04-87	A09	A09TS045	579	456	37536.3	39053.2	1458.9	42.80	2.8176	2.8980	.0004	1828.5839	43.9604	633.222	282.840
03-10-87	A09	A09TS046	579	461	39053.2	40514.0	1458.8	42.90	2.8195	2.8953	.0076	1853.1833	41.0105	629.158	274.555
03-16-87	A09	A09TS047	579	481	40514.0	41972.8	1458.8	43.00	2.7879	2.8030	.0151	1843.4446	8.1912	620.014	274.825
03-22-87	A09	A09TS048	579	492	41972.8	43431.9	1459.1	43.80	2.7787	2.7999	.0172	1860.715	9.2438	620.268	279.900
03-28-87	A09	A09TS049	579	485	43431.9	44890.4	1458.5	43.60	2.7878	2.8035	.0217	1874.8152	11.5745	629.920	277.039

MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 17.3679

DATE	STA. ID.	SAMPLE NO.	FILTER NO.	INIT. TIME	ELAP. TIME	FINL. TIME	FINL. WT.	NET. WT.	VOLUME	CONC.	PRESSURE	TEMP.	COMMENTS		
04-03-87	A09	A09TS050	579	509	44890.4	46346.3	1455.9	42.60	2.7964	2.8483	.0519	1820.973	28.5012	628.320	279.260
04-09-87	A09	A09TS051	579	528	46346.3	47804.0	1457.7	42.60	2.8348	2.9121	.0773	1810.5743	42.6936	625.805	282.205
04-15-87	A09	A09TS052	579	535	47804.0	49262.6	1458.6	41.70	2.8357	2.8934	.0557	1753.8527	32.3288	627.431	290.080
04-21-87	A09	A09TS053	579	550	49262.6	50720.0	1457.4	43.10	2.8389	2.8913	.0524	1900.6609	27.5694	635.457	290.185
04-27-87	A09	A09TS054	579	563	50720.0	52176.9	1456.9	41.70	2.8389	2.8937	.0548	1770.5347	30.9511	635.838	287.520

MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 32.0025

DATE	STA. ID.	SAMPLE NO.	FILTER NO.	INIT. TIME	ELAP. TIME	FINL. TIME	FINL. WT.	NET. WT.	VOLUME	CONC.	PRESSURE	TEMP.	COMMENTS		
05-03-87	A09	A09TS055	579	574	52176.9	53634.0	1457.1	49.5	2.7594	2.7710	.0116	2181.3217	5.3571	628.904	281.14
05-09-87	A09	A09TS056	579	585	53634.0	55090.0	1446	41.9	2.7897	2.8497	.06	1729.7065	34.688	627.253	290.94
05-15-87	A09	A09TS057	579	599	55090.0	56547.5	1453.8	41.9	2.7924	2.8058	.0134	1788.084	7.4943	628.523	282.01
05-21-87	A09	A09TS058	579	618	56547.5	58006.6	1453.1	41.9	2.8152	2.8733	.0581	1760.2946	33.0072	622.173	286.455

MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 14.6492

DATE	STA. ID.	SAMPLE NO.	FILTER NO.	INIT. TIME	ELAP. TIME	FINL. TIME	FINL. WT.	NET. WT.	VOLUME	CONC.	PRESSURE	TEMP.	COMMENTS		
06-02-87	A09	A09TS060	579	630	58006.6	59562.1	1453.3	41.3	3.0380	3.1177	.0797	1733.7582	45.9535	629.666	289.05
06-08-87	A09	A09TS061	579	640	59562.1	61017.8	1453.7	42.5	2.7094	2.7832	.0738	1783.7461	41.2349	630.386	290.495

MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 43.5379

DATE	STA. ID.	SAMPLE NO.	FILTER NO.	INIT. TIME	ELAP. TIME	FINL. TIME	FINL. WT.	NET. WT.	VOLUME	CONC.	PRESSURE	TEMP.	COMMENTS		
06-13-86	A010	A010TS01	578	3	1499.4	2956.6	1457.2	42.40	2.8946	2.9839	.0913	1817.2839	50.2416	629.920	288.730
06-19-86	A010	A010TS02	578	48	2956.6	3007.6	1453.2	41.23	2.9142	2.9615	.0473	1753.6923	25.9717	631.266	293.763
06-25-86	A010	A010TS03	578	54	3007.6	3111.5	1443.9	40.36	2.9135	3.0338	.1163	1897.0808	68.3294	628.320	295.160

MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 50.2416

DATE	STA. ID.	SAMPLE NO.	FILTER NO.	INIT. TIME	ELAP. TIME	FINL. TIME	FINL. WT.	NET. WT.	VOLUME	CONC.	PRESSURE	TEMP.	COMMENTS		
07-01-86	A010	A010TS04	578	38	2956.7	4412.3	1453.6	40.30	2.9119	3.0007	.0888	1716.3912	51.7365	630.089	293.125
07-07-86	A010	A010TS05	578	48	4412.4	5867.6	1453.2	41.23	2.9142	2.9615	.0473	1753.6923	25.9717	631.266	293.763
07-13-86	A010	A010TS06	578	54	5867.6	7311.5	1443.9	40.36	2.9135	3.0338	.1163	1897.0808	68.3294	628.320	295.160
07-19-86	A010	A010TS07	578	78	8117.1	9574.0	1456.9	40.38	2.8970	2.9494	.0324	1722.2867	30.4351	631.190	293.280
07-25-86	A010	A010TS08	578	86	9574.0	11029.5	1455.3	40.67	2.9353	3.0590	.1225	1733.0566	70.6827	630.301	292.630

MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 43.9863

DATE	STA. ID.	SAMPLE NO.	FILTER NO.	INIT. TIME	ELAP. TIME	FINL. TIME	FINL. WT.	NET. WT.	VOLUME	CONC.	PRESSURE	TEMP.	COMMENTS		
08-05-86	A010	A010TS09	578	101	11029.6	12485.0	1455.4	41.08	2.9366	3.0216	.095	1738.4947	54.645	628.320	293.695
08-12-86	A010	A010TS10	578	108	12485.1	13931.9	1446.8	41.38	2.9099	2.9779	.068	1770.1371	38.4151	628.100	293.570
08-18-86	A010	A010TS11	578	140	13931.9	15311.7	1455	45.46	2.8945	2.9810	.0865	1926.4222	44.9018	628.320	292.390

MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 43.9898

DATE	STA. ID.	SAMPLE NO.	FILTER NO.	INIT. TIME	ELAP. TIME	FINL. TIME	FINL. WT.	NET. WT.	VOLUME	CONC.	PRESSURE	TEMP.	COMMENTS		
09-05-86	A010	A010TS12	578	140	14026.7	15311.7	1455	45.46	2.8945	2.9810	.0865	1926.4222	44.9018	628.320	292.390
09-11-86	A010	A010TS13	578	140	14026.7	15311.7	1455	45.46	2.8945	2.9810	.0865	1926.4222	44.9018	628.320	292.390

DATE	STA. ID.	SAMPLE NO.	FILTER NO.	INIT. TIME	ELAP. TIME	FINL. TIME	FINL. WT.	NET. WT.	VOLUME	CONC.	PRESSURE	TEMP.	COMMENTS		
09-11-86	A010	A010TS14	578	140	14026.7	15311.7	1455	45.46	2.8945	2.9810	.0865	1926.4222	44.9018	628.320	292.390

DATE.....	STA. ID.....	SAMPLE NO.....	FILTER NO...	INIT. TIME....	BLDG. TIME...	INIT. WT.....	VOLUME.....	NET. WT....	CONC.....	MEASURE...	TEMP.....	COMMENTS.....
09-17-86	A210	A210TS17	---	---	---	---	---	---	---	---	---	Equipment failure
09-23-86	A210	A210TS18	---	---	---	---	---	---	---	---	---	Equipment failure
09-29-86	A210	A210TS19	---	---	---	---	---	---	---	---	---	Equipment failure
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 0												
10-05-86	A210	A210TS20	---	---	---	---	---	---	---	---	---	Equipment failure
10-11-86	A210	A210TS21	---	---	---	---	---	---	---	---	---	Equipment failure
10-17-86	A210	A210TS22	---	---	---	---	---	---	---	---	---	Equipment failure
10-23-86	A210	A210TS23	---	---	---	---	---	---	---	---	---	Equipment failure
10-29-86	A210	A210TS24	---	---	---	---	---	---	---	---	---	Equipment failure
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 0												
11-04-86	A210	A210TS25	---	---	---	---	---	---	---	---	---	Equipment failure
11-10-86	A210	A210TS26	---	---	---	---	---	---	---	---	---	Equipment failure
11-16-86	A210	A210TS27	---	---	---	---	---	---	---	---	---	Equipment failure
11-22-86	A210	A210TS28	---	---	---	---	---	---	---	---	---	Equipment failure
11-28-86	A210	A210TS29	---	---	---	---	---	---	---	---	---	Equipment failure
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 0												
12-04-86	A210	A210TS30	---	---	---	---	---	---	---	---	---	Equipment failure
12-10-86	A210	A210TS31	---	---	---	---	---	---	---	---	---	Equipment failure
12-16-86	A210	A210TS32	---	---	---	---	---	---	---	---	---	Equipment failure
12-22-86	A210	A210TS33	---	---	---	---	---	---	---	---	---	Equipment failure
12-28-86	A210	A210TS34	---	---	---	---	---	---	---	---	---	Equipment failure
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 0												
01-03-87	A210	A210TS35	---	---	---	---	---	---	---	---	---	Equipment failure
01-09-87	A210	A210TS36	---	---	---	---	---	---	---	---	---	Equipment failure
01-15-87	A210	A210TS37	---	---	---	---	---	---	---	---	---	Equipment failure
01-21-87	A210	A210TS38	---	---	---	---	---	---	---	---	---	Equipment failure
01-27-87	A210	A210TS39	---	---	---	---	---	---	---	---	---	Equipment failure
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 0												
02-02-87	A210	A210TS40	---	---	---	---	---	---	---	---	---	Equipment failure
02-08-87	A210	A210TS41	---	---	---	---	---	---	---	---	---	Equipment failure
02-14-87	A210	A210TS42	---	---	---	---	---	---	---	---	---	Equipment failure
02-20-87	A210	A210TS43	---	---	---	---	---	---	---	---	---	Equipment failure
02-26-87	A210	A210TS44	---	---	---	---	---	---	---	---	---	Equipment failure
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 0												
03-04-87	A210	A210TS45	---	---	---	---	---	---	---	---	---	Equipment failure
03-10-87	A210	A210TS46	---	---	---	---	---	---	---	---	---	Equipment failure
03-16-87	A210	A210TS47	---	---	---	---	---	---	---	---	---	Equipment failure
03-22-87	A210	A210TS48	568	19031.4	20485.5	1454.1	46.40	2.7864	2.7986	.0122	279.500	Equipment failure
03-28-87	A210	A210TS49	---	---	---	---	---	---	---	---	---	Equipment failure
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 3.5048												
04-03-87	A210	A210TS50	---	---	---	---	---	---	---	---	---	Equipment failure
04-09-87	A210	A210TS51	---	---	---	---	---	---	---	---	---	Equipment failure
04-15-87	A210	A210TS52	---	---								

DATE..... STA. ID... SAMPLE NO..... FILTERED NO... INIT. TIME... BLANKS TIME... FILLED..... INIT. WT.... FINAL WT.... NET WT.... VOLUME..... MEASURE... TEST... COMMENTS.....

MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 0

[illegible]

DATE	TIME	LOCATION	DESCRIPTION	STATUS	REMARKS
10-02-87	1010	1010TS60	EQUIPMENT FAILURE	---	
10-08-87	1010	1010TS61	EQUIPMENT FAILURE	---	

ANNUAL GEOMETRIC AVERAGE CONCENTRATION = 24.1061

[illegible]

MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 45.6086

Q211	Q211T5910	569	14531.0	16003.9	33.04	2.9033	3.0054	.1021	1704.1094	59.914	626.396	285.695
Q211	Q211T5911	569	14531.0	16003.9	33.04	2.9033	3.0054	.1021	1704.1094	59.914	626.396	285.695

ONLY GEOMETRIC AVERAGE CONCENTRATION = 46.3573

Year	Q211	Q211TS915	120	21113.6	22556.8	1453.2	46.81	2.9380	3.0498	.1118	2004.4874	54.4175	630.600	291.515
9-05-86	Q211	Q211TS915	568	21113.6	22556.8	1453.2	46.81	2.9380	3.0498	.1118	2004.4874	54.4175	630.600	291.515
9-11-86	Q211	Q211TS916	568	22556.8	24018.2	1451.4	47.48	2.8788	2.9470	.0682	2092.3896	32.5943	628.520	287.590
9-17-86	Q211	Q211TS917	568	24018.2	25470.3	1452.1	46.70	2.8952	3.0032	.109	2044.4036	53.3163	626.491	290.980
9-23-86	Q211	Q211TS918	568	25470.3	26923.4	1453	49.00	2.9154	2.9678	.0024	2169.1115	84.1574	627.329	284.810
9-29-86	Q211	Q211TS919	568	26923.4	28470.4	1453	49.00	2.9154	2.9678	.0024	2169.1115	84.1574	627.329	284.810

MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 34.8774

Equipment failure

DAILY BEDNETMIC AVERAGE CONCENTRATION = 22.8761

[illegible]



TSR 0010 23 JUL 1968

DATE..... STA. ID., SAMPLE NO.,..... SUPPLER NO.,..... FILTER NO.,..... INIT. TIME...: FINAL TIME... ELAPS. TIME... FLOW..... INIT. WT.... FINAL WT.... CONC..... PRESSURE... TEMP..... COMMENTS.....

11-16-66 AQ11 AQ11TSR27 568 249 38990.0 39540.4 1450.4 48.90 2.9142 2.9324 .0382 2157.1075 17.7089 622.808 281.760  
11-22-66 AQ11 AQ11TSR28 568 265 39540.4 40993.7 1449.3 50.20 2.7990 2.8746 .0735 2243.7809 33.6331 625.907 277.030  
11-28-66 AQ11 AQ11TSR29 568 278 40993.7 42440.3 1450.6 49.70 2.6757 2.7347 .059 2206.4387 26.7399 621.285 282.970  
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 28.3355

12-04-66 AQ11 AQ11TSR30 568 286 42440.3 43893.3 1453 51.00 2.6751 2.8860 .2109 2223.3667 90.7758 631.266 276.110  
12-10-66 AQ11 AQ11TSR31 568 295 43893.3 45346.9 1453.6 53.80 2.7030 2.7953 .0933 2472.3216 37.7348 628.658 264.095  
12-16-66 AQ11 AQ11TSR32 568 310 45346.9 46799.9 1453 52.50 2.6699 2.8539 .164 2361.6906 77.9103 636.301 276.460  
12-22-66 AQ11 AQ11TSR33 568 319 46941.8 48396.2 1454.4 57.80 2.6925 2.8892 .1967 2533.0667 74.7038 623.539 275.290  
12-28-66 AQ11 AQ11TSR34 568 328 48396.2 49851.7 1455.5 43.90 2.6746 2.7649 .0903 1940.0293 46.3545 636.174 274.200  
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 62.1061

01-03-67 AQ11 AQ11TSR35 568 334 49851.7 51306.2 1454.5 43.60 2.8671 2.9278 .0667 1942.4885 31.2486 627.456 275.370  
01-09-67 AQ11 AQ11TSR36 568 357 51306.2 52760.4 1454.2 44.50 2.7845 2.8743 .0838 1999.3342 44.915 627.761 272.000  
01-15-67 AQ11 AQ11TSR37 568 368 52760.5 54214.0 1453.5 44.90 2.8982 2.9560 .0298 2023.11 14.7152 627.329 283.210  
01-21-67 AQ11 AQ11TSR38 390 55667.5 57119.7 1452.2 42.60 2.9143 2.9666 .0523 1862.014 28.0879 626.821 283.080  
01-27-67 AQ11 AQ11TSR39 568 390 55667.5 57119.7 1452.2 42.60 2.9143 2.9666 .0523 1862.014 28.0879 626.821 283.080  
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 27.598

02-02-67 AQ11 AQ11TSR40 568 402 57119.7 58571.3 1451.6 42.90 2.8139 2.8800 .0661 1843.7043 35.8517 622.808 284.865  
02-08-67 AQ11 AQ11TSR41 568 415 58571.3 59923.7 1447.4 40.10 2.8308 2.9137 .0839 2143.7142 38.6712 631.698 278.565  
02-14-67 AQ11 AQ11TSR42 568 425 59923.7 61476.0 1452.3 43.90 2.8240 2.8530 .041 1917.9933 21.382 620.014 276.630  
02-20-67 AQ11 AQ11TSR43 568 433 61476.0 62929.1 1453.1 44.80 2.8299 2.9004 .0705 2017.1558 34.9502 628.650 271.193  
02-26-67 AQ11 AQ11TSR44 568 447 62929.1 64381.4 1452.3 43.80 2.8128 2.8362 .0234 1967.4888 11.8933 623.062 268.765  
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 26.1903

03-04-67 AQ11 AQ11TSR45 568 458 64381.4 65834.1 1452.7 42.90 2.8123 2.8997 .0874 1888.1764 46.288 633.222 282.840  
03-10-67 AQ11 AQ11TSR46 568 464 65834.1 67287.5 1453.4 40.30 2.8223 2.9038 .0815 1787.3053 45.5994 629.158 274.555  
03-16-67 AQ11 AQ11TSR47 568 483 67287.5 68741.0 1453.5 40.80 2.7990 2.8119 .0129 1796.2615 7.1816 620.014 274.825  
03-22-67 AQ11 AQ11TSR48 568 490 68741.0 70193.8 1452.8 42.50 2.7806 2.7948 .0142 1858.8246 7.5392 620.268 279.900  
03-28-67 AQ11 AQ11TSR49 390 69923.1 71647.5 1452.7 42.90 2.8123 2.8997 .0874 1888.1764 46.288 633.222 282.840  
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 18.4465

04-03-67 AQ11 AQ11TSR50 568 519 71647.5 73100.4 1452.9 41.50 2.7859 2.8435 .0596 1826.4301 32.632 628.320 279.260  
04-09-67 AQ11 AQ11TSR51 568 530 73100.4 74552.8 1452.4 41.40 2.8412 2.9174 .0762 1806.6785 42.1768 625.005 282.205  
04-15-67 AQ11 AQ11TSR52 568 541 74552.8 76006.0 1453.2 40.80 2.8035 2.8774 .0739 1755.0614 42.1068 627.431 290.080  
04-21-67 AQ11 AQ11TSR53 568 549 76006.0 77459.8 1453.8 42.30 2.8461 2.8994 .0533 1838.646 28.9887 635.457 290.185  
04-27-67 AQ11 AQ11TSR54 568 564 77459.8 78911.8 1452 41.10 2.8364 2.9349 .0985 1789.2244 35.0518 635.838 287.520  
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 38.1935

05-03-67 AQ11 AQ11TSR55 568 575 78911.8 80363.5 1451.6 43.0 2.8008 2.8148 .014 1890.688 7.4047 628.904 281.14  
05-09-67 AQ11 AQ11TSR56 568 586 80363.5 81814.6 1451.1 40.6 2.7855 2.8313 .0618 1740.0487 35.5162 627.253 290.94  
05-15-67 AQ11 AQ11TSR57 568 597 81814.6 83266.0 1451.2 40.9 2.7979 2.900 1.101 1744.0571 63.1287 629.285 295.005  
05-21-67 AQ11 AQ11TSR58 568 606 83266.0 84718.6 1452.6 41.2 2.8528 2.8629 .0101 1802.343 5.6038 628.523 282.01  
05-27-67 AQ11 AQ11TSR59 568 619 84718.6 86169.3 1450.7 41.5 2.7724 2.8327 .0603 1788.9451 33.707 622.173 286.435  
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 19.9193

06-02-67 AQ11 AQ11TSR60 568 631 86169.3 87620.4 1451.1 40.5 2.6789 2.7616 .0827 1745.2164 47.3867 629.666 289.05  
06-08-67 AQ11 AQ11TSR61 568 641 87620.4 89071.2 1450.8 40.0 2.8728 2.9468 .074 1717.6901 43.0811 630.386 290.495  
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 45.1885

ANNUAL GEOMETRIC AVERAGE CONCENTRATION = 31.3005

No final weight

EQUIPMENT FAILURE

TOP DATA 23 JUL 1988

DATE..... STA. ID... SAMPLE NO..... FILTERED NO... INIT. TIME.... FINISH TIME... ELAPSE TIME... FLUX..... INIT. WT..... FINISH WT.... NET WT..... VOLUME..... CONC..... PRESSURE... TEMP..... COMMENTS.....

06-13-86 AQ12 AQ12TS91 500 2 1460.7 2884.3 1423.6 39.00 2.9239 3.0074 .0775 1535.0181 47.3711 623.290 288.730  
 06-19-86 AQ12 AQ12TS92 500 21 2884.3 4308.7 1424.4 39.00 2.9438 3.0082 .0844 1612.1389 39.9222 627.634 295.329  
 06-25-86 AQ12 AQ12TS93 500 25 4308.8 5732.7 1423.9 38.50 2.8930 2.9764 .0834 1611.7148 31.7461 627.338 288.945  
 MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 46.0824

07-01-86 AQ12 AQ12TS94 500 36 5732.7 7155.0 1423.3 39.79 2.9070 2.9968 .0898 1535.8539 54.2183 630.089 293.125  
 07-07-86 AQ12 AQ12TS95 500 46 7155.0 8579.2 1423.2 39.47 2.9043 2.9505 .0842 1642.7038 28.1244 631.266 293.785  
 07-13-86 AQ12 AQ12TS96 500 57 8579.2 10002.0 1422.8 39.24 2.9538 3.0132 .0924 1625.1733 56.8555 624.320 295.160  
 07-19-86 AQ12 AQ12TS97 500 66 10002.0 11427.1 1425.1 39.32 2.9003 2.9436 .0846 1630.6523 27.8676 634.704 291.060  
 07-25-86 AQ12 AQ12TS98 500 69 11427.1 12851.3 1424.2 38.73 2.9220 2.9758 .0838 1614.254 33.3217 631.190 293.260  
 07-31-86 AQ12 AQ12TS99 500 91 12851.3 14275.0 1423.7 38.75 2.9282 3.0527 .1245 1615.4694 77.0674 630.301 292.630  
 MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 42.8663

08-06-86 AQ12 AQ12TS910 500 96 14275.0 15698.6 1423.6 39.02 2.8994 2.9602 .0808 1615.7004 50.009 628.376 295.955  
 08-12-86 AQ12 AQ12TS911 500 105 15698.6 17121.7 1423.2 40.00 2.9325 3.0042 .0717 1664.9529 43.164 628.100 293.570  
 08-18-86 AQ12 AQ12TS912 500 111 17121.7 18544.3 1422.6 42.42 2.8891 2.9782 .0891 1730.0818 50.9119 631.910 298.045  
 08-24-86 AQ12 AQ12TS913 500 125 18544.3 19966.2 1421.9 43.46 2.9274 2.9657 .0883 1800.6571 21.27 628.472 294.050  
 08-30-86 AQ12 AQ12TS914 500 137 19966.2 21390.0 1423.8 44.38 2.8959 2.9605 .0846 1845.8427 45.8327 628.320 292.350  
 MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 40.364

09-05-86 AQ12 AQ12TS915 500 135 21390.0 22813.5 1423.5 44.73 2.8928 2.9794 .0856 1883.113 46.4315 630.000 291.515  
 09-11-86 AQ12 AQ12TS916 500 151 22813.5 24237.4 1423.9 44.85 2.9231 2.9788 .0857 1881.0167 29.6116 628.520 287.590  
 09-17-86 AQ12 AQ12TS917 500 148 24237.4 25660.3 1422.9 44.40 2.9270 3.0115 .0845 1847.256 45.7435 625.491 290.980  
 09-23-86 AQ12 AQ12TS918 500 157 25660.3 27084.0 1423.7 44.30 2.9025 2.9765 .0846 1847.7612 36.8013 625.433 289.350  
 09-29-86 AQ12 AQ12TS919 500 181 27084.0 28507.0 1423 45.80 2.9197 2.9635 .0458 1925.7582 23.7705 627.325 284.810  
 MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 35.3266

10-05-86 AQ12 AQ12TS920 500 177 28507.0 29930.6 1423.6 46.70 2.9008 2.9516 .0308 1981.3506 15.545 632.841 282.590  
 10-11-86 AQ12 AQ12TS921 500 188 29930.6 31353.8 1423.2 46.70 2.8885 2.9081 .0196 2102.9571 9.3202 630.728 271.190  
 10-17-86 AQ12 AQ12TS922 500 199 31353.8 32776.0 1424.2 47.60 2.7212 2.7728 .0316 1997.914 25.8259 624.777 287.090  
 10-23-86 AQ12 AQ12TS923 500 209 32776.0 34203.0 1422.6 46.00 2.7246 2.7723 .0477 2040.7184 23.3741 631.350 280.235  
 10-29-86 AQ12 AQ12TS924 500 220 34203.0 35628.0 1423 47.60 2.7681 2.8607 .0985 2016.4071 45.9233 631.552 283.350  
 MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 24.5001

11-04-86 AQ12 AQ12TS925 500 231 35628.0 37051.3 1423.3 51.80 2.7119 2.7749 .063 2282.3037 28.6064 625.920 279.540  
 11-10-86 AQ12 AQ12TS926 500 241 37051.3 38475.2 1424 50.30 2.7556 2.7956 .044 2198.2008 20.0073 630.428 284.810  
 11-16-86 AQ12 AQ12TS927 500 266 38475.2 39898.1 1423.8 48.70 2.8002 2.8627 .0625 2074.9001 30.1219 625.907 277.030  
 11-22-86 AQ12 AQ12TS928 500 276 39898.1 41321.1 1424 47.50 2.6707 2.7111 .0404 2025.3572 13.9467 625.285 282.570  
 MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 24.2129

12-04-86 AQ12 AQ12TS930 500 289 41321.1 42744.0 1423.9 49.50 2.6809 2.7438 .1629 2125.5716 76.4943 631.266 270.110  
 12-10-86 AQ12 AQ12TS931 500 297 42744.0 44167.0 1424.3 49.30 2.6995 2.7705 .071 2132.62 31.2584 628.628 284.095  
 12-16-86 AQ12 AQ12TS932 500 311 44167.0 45590.2 1423.8 48.00 2.6714 2.8130 .1436 2022.3536 71.0072 630.301 276.460  
 12-22-86 AQ12 AQ12TS933 500 318 45590.2 47013.1 1424 53.40 2.6500 2.8388 .1488 2456.9787 60.3167 625.539 275.290  
 12-28-86 AQ12 AQ12TS934 500 329 47013.1 48436.1 1424.3 45.80 2.6800 2.7557 .0767 1994.571 38.4544 630.174 274.720  
 MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 51.0312

01-03-87 AQ12 AQ12TS935 500 335 48436.1 49859.4 1424.1 44.80 2.8461 2.8991 .063 1964.6015 26.9227 627.425 273.570  
 01-09-87 AQ12 AQ12TS936 500 358 49859.4 51282.3 1422.8 45.30 2.7919 2.8632 .0773 2012.989 38.4006 627.761 272.000

Equipment failure

759 DATA 29 JUL 1969

DATE..... STA. ID., SAMPLE NO.,... FILTER NO.,... INT. TIME.... FLOW TIME... ELAPD. TIME... FLOW RATE... NET WT.... CONC..... PRESSURE... TEMP..... COMMENTS.....

01-15-67 R012 R012TS037 500 369 53429.3 54051.9 1422.6 44.50 2.8931 2.9198 .0637 1991.6519 13.406 627.329 265.210  
 01-21-67 R012 R012TS038 500 360 54051.9 54275.5 1423.6 44.10 2.9200 2.9562 .0662 1953.9195 34.9042 626.065 253.839  
 01-27-67 R012 R012TS039 500 391 56275.5 57698.4 1422.9 43.10 2.9168 2.9663 .0497 1895.2832 26.7307 626.021 263.000  
 MONTHLY BEDMETRIC AVERAGE CONCENTRATION = 26.4441

02-02-67 R012 R012TS040 500 403 57698.4 59120.0 1421.6 44.20 2.8156 2.8736 .059 1893.1857 30.6039 622.808 259.1  
 02-08-67 R012 R012TS041 500 416 59120.0 60542.5 1422.5 44.50 2.8279 2.9049 .073 1947.4648 30.5116 631.638 278.2  
 02-14-67 R012 R012TS042 500 426 60542.5 61965.5 1423 44.70 2.8120 2.8534 .0414 1943.3258 21.6417 626.014 276.639  
 02-20-67 R012 R012TS043 500 431 61965.5 63388.5 1423 45.70 2.8356 2.8814 .0548 2027.317 27.0305 628.639 271.193  
 02-26-67 R012 R012TS044 500 445 63388.5 64811.8 1423.3 45.20 2.8279 2.8519 .0231 2004.3563 31.2549 621.862 268.765  
 MONTHLY BEDMETRIC AVERAGE CONCENTRATION = 23.9097

03-04-67 R012 R012TS045 500 459 64811.8 66234.3 1422.5 44.30 2.8250 2.9068 .0008 1923.083 41.9732 633.222 282.840  
 03-10-67 R012 R012TS046 500 469 66234.3 67658.3 1424 47.30 2.8092 2.8783 .0691 2091.1991 33.0432 625.158 274.335  
 03-16-67 R012 R012TS047 500 404 67658.3 69082.0 1273.7 45.70 2.7779 2.7855 .0116 1798.7505 6.405 620.014 274.825  
 03-22-67 R012 R012TS048 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---  
 03-28-67 R012 R012TS049 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---  
 MONTHLY BEDMETRIC AVERAGE CONCENTRATION = 20.7964

Equipment failure  
Equipment failure

04-03-67 R012 R012TS050 500 500 70206.0 71530.2 1424.2 45.60 2.7776 2.8222 .0446 1992.6186 22.3825 628.259 275.260  
 04-09-67 R012 R012TS051 500 531 71530.2 73354.8 1424.6 45.30 2.8279 2.8975 .0676 1964.1257 34.4173 625.865 282.265  
 04-15-67 R012 R012TS052 500 542 73354.8 74778.6 1425.8 44.40 2.8007 2.8657 .077 1893.0521 40.5463 627.431 290.000  
 04-21-67 R012 R012TS053 500 547 74778.6 76202.5 1423.9 46.20 2.8382 2.8886 .0504 1991.2107 25.3112 635.457 290.185  
 04-27-67 R012 R012TS054 500 585 76202.5 77626.5 1424 44.60 2.7921 2.8608 .0687 1928.3044 35.6272 635.638 287.529  
 MONTHLY BEDMETRIC AVERAGE CONCENTRATION = 24.8992

05-03-67 R012 R012TS055 500 576 77626.5 79050.6 1424.1 46.2 2.7764 2.7901 .0137 2014.0832 6.8021 628.594 281.14  
 05-09-67 R012 R012TS056 500 587 79050.6 80474.6 1424 44.3 2.7633 2.8278 .0623 1888.6562 33.0888 627.253 290.94  
 05-15-67 R012 R012TS057 500 598 80474.6 81898.6 1424 43.6 2.7759 2.8403 .0604 1846.6478 32.7073 623.265 285.005  
 05-21-67 R012 R012TS058 500 604 81898.6 83322.7 1424.1 44.9 2.8068 2.8181 .0113 1930.2421 5.7942 628.323 282.01  
 05-27-67 R012 R012TS059 500 620 83322.7 84747.4 1424.7 45.3 2.7461 2.8067 .0606 1942.7441 31.153 622.173 286.425  
 MONTHLY BEDMETRIC AVERAGE CONCENTRATION = 16.7805

06-02-67 R012 R012TS060 500 632 84747.4 86171.5 1424.1 44.8 2.8747 2.7611 .0864 1922.182 44.9487 623.666 289.65  
 06-08-67 R012 R012TS061 500 642 86171.5 87595.6 1424.1 43.8 2.8218 2.9004 .0786 1872.8028 41.9632 620.206 290.455  
 MONTHLY BEDMETRIC AVERAGE CONCENTRATION = 43.4304

ANNUAL BEDMETRIC AVERAGE CONCENTRATION = 30.777

10-29-66 R09X R091TS064 563 217 8396.3 9085.9 1458.6 45.00 2.7404 2.8416 .0532 2097.4633 44.441 631.522 283.529  
 MONTHLY BEDMETRIC AVERAGE CONCENTRATION = 44.441

11-04-66 R09X R091TS065 563 229 9085.9 9724.1 1451.5 43.00 2.7847 2.7925 .0579 2093.3853 32.2911 623.929 275.349  
 11-10-66 R09X R091TS066 563 240 9724.1 10188.1 1454 47.30 2.7404 2.7892 .0408 2028.4178 21.7075 620.428 264.810  
 11-16-66 R09X R091TS067 563 253 10188.1 11640.3 1452.2 43.70 2.9006 2.9415 .0329 1933.254 17.0153 622.808 283.760  
 11-22-66 R09X R091TS068 563 262 11640.3 13053.8 1453.5 46.20 2.8388 2.9359 .0571 1963.6144 28.9904 625.907 277.039  
 11-28-66 R09X R091TS069 563 267 13053.8 14549.3 1455.5 45.90 2.7827 2.8482 .0555 1982.6794 28.4289 623.285 282.979  
 MONTHLY BEDMETRIC AVERAGE CONCENTRATION = 23.6327

12-04-66 R09X R091TS070 563 286 14549.3 16004.2 1454.9 47.30 2.6889 2.8389 .1091 2008.1241 63.2771 631.266 279.119  
 12-10-66 R09X R091TS071 563 299 16004.2 17458.8 1454.6 50.00 2.7112 2.7868 .0756 2123.1877 35.0468 628.638 284.895

1950 APR 29 JUL 1950

DATE.....	STA. ID.	SAMPLE NO.....	SUPPLIER NO.....	FILTERED NO...	INIT. TIME...	FINL. TIME...	BLDG. TIME...	FLD. TIME...	INIT. WT....	FINL. WT....	VOLUME.....	COND.....	PRESSURE...	TEMP.....	CONDUCT...
12-16-46	ADTX	ADTX1522	569	308	1745.8	18912.9	1454.1	43.00	2.6744	2.8312	1560	76.1116	630.301	276.469	
12-22-46	ADTX	ADTX1523	569	317	1856.4	20417.7	1453.3	54.00	2.6556	2.8425	1539	83.8018	628.329	275.290	
12-28-46	ADTX	ADTX1524	569	333	20417.7	21871.6	1453.9	44.00	2.6740	2.9629	1608	46.2527	630.174	274.720	
MONTHLY BEDNETRIC AVERAGE CONCENTRATION = 58.5642															
01-03-47	ADTX	ADTX1525	569	346	21871.6	23323.3	1453.9	43.00	2.8629	2.9414	1603	30.3334	627.426	275.370	
01-09-47	ADTX	ADTX1526	569	354	23323.3	24773.6	1453.7	46.00	2.7845	2.8787	1581.7289	47.534	627.761	272.000	
01-15-47	ADTX	ADTX1527	569	366	24773.6	26233.6	1454	45.70	2.9115	2.9386	1953.168	12.9564	627.323	283.210	
01-21-47	ADTX	ADTX1528	569	377	26233.6	27688.1	1454.5	45.90	2.9094	2.9653	1963.6797	30.2522	626.065	283.630	
01-27-47	ADTX	ADTX1529	569	388	27688.1	29141.1	1453	43.00	2.8944	2.9422	1822.2346	23.9539	626.821	281.000	
MONTHLY BEDNETRIC AVERAGE CONCENTRATION = 23.4606															
02-02-47	ADTX	ADTX1530	569	400	29141.1	30594.1	1453	43.30	2.9107	2.9774	1820.7643	36.633	622.808	284.865	
02-08-47	ADTX	ADTX1531	569	413	30594.1	32048.3	1454.2	44.60	2.8062	2.8807	1904.0524	39.0431	631.630	278.365	
02-14-47	ADTX	ADTX1532	569	423	32048.3	33502.5	1454.2	44.20	2.8198	2.8619	1880.9736	22.382	620.014	276.630	
02-20-47	ADTX	ADTX1533	569	438	33502.5	34956.6	1454.1	45.10	2.8150	2.8797	1945.0148	22.7838	628.630	271.195	
02-26-47	ADTX	ADTX1534	569	438	34956.6	36411.0	1454.4	44.60	2.8176	2.8543	1928.6704	19.0587	621.062	264.765	
MONTHLY BEDNETRIC AVERAGE CONCENTRATION = 28.846															
03-04-47	ADTX	ADTX1535	569	455	36411.0	37863.9	1454.9	43.00	2.8160	2.9009	1831.7589	45.6576	633.222	282.040	
03-10-47	ADTX	ADTX1536	569	460	37863.9	39317.8	1454.2	43.10	2.7761	2.7883	1891.7378	6.6542	620.014	274.825	
03-16-47	ADTX	ADTX1537	569	480	39317.8	40774.8	1454.5	44.30	2.8091	2.8278	1875.5004	9.9723	620.268	275.500	
03-22-47	ADTX	ADTX1538	569	493	40774.8	42228.3	1454.4	44.70	2.7974	2.8169	1914.6047	11.8278	625.920	277.039	
03-28-47	ADTX	ADTX1539	569	486	42228.3	43683.7	1454.4	43.50	2.7944	2.8369	1858.3035	28.2316	620.269	274.260	
04-03-47	ADTX	ADTX1540	569	510	43683.7	45135.9	1455.2	43.30	2.8164	2.8732	1834.3447	30.9647	625.005	282.205	
04-09-47	ADTX	ADTX1541	569	523	45135.9	46588.8	1453.9	43.30	2.8164	2.8732	1834.3447	30.9647	625.005	282.205	
04-15-47	ADTX	ADTX1542	569	533	46588.8	48042.3	1454.5	43.00	2.8116	2.8711	1814.6485	32.7887	635.457	290.185	
04-21-47	ADTX	ADTX1543	569	552	48042.3	49495.2	1455.5	43.20	2.8493	2.9108	1825.867	31.7183	635.830	287.520	
04-27-47	ADTX	ADTX1544	569	562	49495.2	50948.7	1455.5	43.20	2.8493	2.9108	1825.867	31.7183	635.830	287.520	
MONTHLY BEDNETRIC AVERAGE CONCENTRATION = 31.3589															
05-03-47	ADTX	ADTX1545	569	573	50948.7	52401.7	1454.8	43.8	2.7378	2.7739	1863.6379	8.1261	620.904	281.14	
05-09-47	ADTX	ADTX1546	569	594	52401.7	53854.4	1454.9	42.4	2.7915	2.8404	1850.4286	30.7426	627.253	290.94	
05-15-47	ADTX	ADTX1547	569	600	53854.4	55307.9	1454.4	42.9	2.8009	2.8138	1825.2807	7.2592	628.323	282.04	
05-21-47	ADTX	ADTX1548	569	617	55307.9	56760.1	1454.9	42.4	2.8469	2.9058	1781.1114	21.0592	622.173	286.435	
05-27-47	ADTX	ADTX1549	569	629	56760.1	58213.0	1453.8	41.2	2.8088	2.8406	1723.8842	47.1773	625.666	289.06	
06-02-47	ADTX	ADTX1550	569	630	58213.0	59665.1	1441.7	43.4	2.7685	2.8459	1604.1217	42.9048	630.386	290.495	
06-08-47	ADTX	ADTX1551	569	630	59665.1	61118.0	1441.7	43.4	2.7685	2.8459	1604.1217	42.9048	630.386	290.495	
MONTHLY BEDNETRIC AVERAGE CONCENTRATION = 44.3888															
ANNUAL BEDNETRIC AVERAGE CONCENTRATION = 23.3510															

Equipment failure

Equipment failure

EQUIPMENT FAILURE

**APPENDIX B.2**  
**FM-10 DATA**

DATE.....	SYS. ID.....	SAMPLE NO.....	FLTR NR.....	STRT. NO.....	STOP. NO.....	ELAP. TIME...	FLU. ....	NET. Wt....	FWAL. Wt....	NET. Wt....	VOLUME.....	COR. ....	CHL. Wt.....	CONCENTR.....
07-01-66	R2	R2P44	582	11	882.6	10082.6	1440	36.05	4.1364	4.2918	1478.1478	44.4853		
07-07-66	R2	R2P45	582	13	11743.2	13104.4	1441.2	36.05	4.2946	4.2513	1471.373	38.5354		
07-13-66	R2	R2P46	582	17	13258.8	14638.8	1440	36.05	4.1932	4.2113	1478.1478	12.3117		
07-19-66	R2	R2P47	582	---	---	---	---	---	---	---	---	---		
07-25-66	R2	R2P48	582	---	---	---	---	---	---	---	---	---		
07-31-66	R2	R2P49	582	---	---	---	---	---	---	---	---	---		
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 27.6533														
08-06-66	R2	R2P50	582	21	16136.4	17576.4	1440	36.05	4.2519	4.3134	1478.1478	25.0385		
08-12-66	R2	R2P51	582	24	17635.2	19075.2	1440	36.05	4.2789	4.3359	1478.1478	22.6478		
08-18-66	R2	R2P52	582	25	19156.2	20596	1441.8	36.05	4.2578	4.3449	1471.9855	26.7911		
08-24-66	R2	R2P53	582	27	20794.6	22194.6	1440	40.00	4.2894	4.3186	1631.232	17.9066		
08-30-66	R2	R2P54	582	30	22292.4	23732.4	1440	40.00	4.3106	4.3546	1631.232	33.2864		
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 30.4987														
09-05-66	R2	R2P55	582	29	23760	25198.4	1438.4	40.00	4.2879	4.2703	1638.3923	26.2632		
09-11-66	R2	R2P56	582	32	25320	26760.6	1440.6	40.00	4.1725	4.2161	1631.9117	24.8788		
09-17-66	R2	R2P57	582	34	26831.4	28271.4	1440	40.00	4.2820	4.2530	1631.232	22.4908		
09-23-66	R2	R2P58	582	36	28342	29782	1440	40.00	4.2876	4.3432	1631.232	23.3107		
09-29-66	R2	R2P59	582	38	30083.4	31523.4	1440	40.00	4.1544	4.1753	1631.232	12.8124		
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 26.8635														
10-05-66	R2	R2P60	582	40	31636.8	33076.8	1440	40.00	4.2773	4.3036	1631.232	16.1588		
10-11-66	R2	R2P61	582	42	33078	34518.6	1440.6	40.00	4.2845	4.2385	1631.9117	8.5789		
10-17-66	R2	R2P62	582	45	34519.2	35959.2	1440	40.00	4.1636	4.2088	1631.232	20.3327		
10-23-66	R2	R2P63	582	46	36036.4	37476.4	1440	40.00	4.1217	4.1722	1631.232	23.1191		
10-29-66	R2	R2P64	582	48	37554.8	38995.4	1440.6	40.00	3.9939	4.0736	1631.9117	45.1618		
MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 29.5915														
11-04-66	R2	R2P65	582	51	40005.4	42445.4	1440	40.00	3.9838	3.9936	1631.232	40.6441		
11-10-66	R2	R2P66	582	54	42554.4	45004.4	1440	40.00	4.0629	4.0983	1631.232	21.7914		
11-16-66	R2	R2P67	582	57	43710	46160.8	1432.8	40.00	4.1780	4.2238	1623.0728	23.4503		
11-22-66														

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..... DATE..... CHL BY..... CONC.....
..... VOLUME..... NET WT..... FUEL WT.....
..... FLAM..... INT. WT..... FUEL WT.....
..... VOL..... CONC..... CONC.....
..... DATE.....
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[illegible]

MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 0

[illegible]

MONTHLY SEDIMENT AVERAGE CONCENTRATION = 14.1293

DATE	TIME	LOCATION	DESCRIPTION	STATUS	REMARKS
04-03-47	022	022PMS0	Equipment failure	---	---
04-04-47	022	022PMS1	Equipment failure	---	---
04-15-47	022	022PMS2	Equipment failure	---	---
04-21-47	022	022PMS3	Equipment failure	---	---
04-27-47	022	022PMS4	Equipment failure	---	---

MONTHLY GENETIC AVERAGE CONCENTRATION = 0

[illegible]

INITIALLY GENETIC AVERAGE CONCENTRATION = 0

	1	116	89853.2	1440	44.0	4.2635	.663	1531.232	28.8472
022-05-47	022-060								
022-05-47	022-060	1	1325.2	89853.2	1440	44.0	4.2635 <td>1531.232</td> <td>28.8472</td>	1531.232	28.8472
022-05-47	022-060	!	121	89853.2	1440	44.0	4.3316	1531.232	28.8472

DAILY GEOMETRIC AVERAGE CONCENTRATION = 45.3521

MAXIMUM GENETIC DIVERSITY = 30.53%

[illegible]

ONLY GENETIC AVERAGE CONCENTRATION = 0

[illegible]

Only GENETRIC AVERAGE CONCENTRATION = 0

[illegible]

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PROB..... STA. ID..... SAMPLE NO..... SUPPLY NO..... STOP MON..... ELAP. TIME... PLOD..... DIST. WT... FUEL WT... MET. WT... CORE..... CORE..... CORE..... CORE.....

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[illegible]

Year	1941-42	1942-43	1943-44	1944-45	1945-46	1946-47	1947-48	1948-49	1949-50	1950-51	1951-52	1952-53	1953-54	1954-55	1955-56	1956-57	1957-58	1958-59	1959-60	1960-61	1961-62	1962-63	1963-64	1964-65	1965-66	1966-67	1967-68	1968-69	1969-70	1970-71	1971-72	1972-73	1973-74	1974-75	1975-76	1976-77	1977-78	1978-79	1979-80	1980-81	1981-82	1982-83	1983-84	1984-85	1985-86	1986-87	1987-88	1988-89	1989-90	1990-91	1991-92	1992-93	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31	2031-32	2032-33	2033-34	2034-35	2035-36	2036-37	2037-38	2038-39	2039-40	2040-41	2041-42	2042-43	2043-44	2044-45	2045-46	2046-47	2047-48	2048-49	2049-50	2050-51	2051-52	2052-53	2053-54	2054-55	2055-56	2056-57	2057-58	2058-59	2059-60	2060-61	2061-62	2062-63	2063-64	2064-65	2065-66	2066-67	2067-68	2068-69	2069-70	2070-71	2071-72	2072-73	2073-74	2074-75	2075-76	2076-77	2077-78	2078-79	2079-80	2080-81	2081-82	2082-83	2083-84	2084-85	2085-86	2086-87	2087-88	2088-89	2089-90	2090-91	2091-92	2092-93	2093-94	2094-95	2095-96	2096-97	2097-98	2098-99	2099-00	2100-01	2101-02	2102-03	2103-04	2104-05	2105-06	2106-07	2107-08	2108-09	2109-10	2110-11	2111-12	2112-13	2113-14	2114-15	2115-16	2116-17	2117-18	2118-19	2119-20	2120-21	2121-22	2122-23	2123-24	2124-25	2125-26	2126-27	2127-28	2128-29	2129-30	2130-31	2131-32	2132-33	2133-34	2134-35	2135-36	2136-37	2137-38	2138-39	2139-40	2140-41	2141-42	2142-43	2143-44	2144-45	2145-46	2146-47	2147-48	2148-49	2149-50	2150-51	2151-52	2152-53	2153-54	2154-55	2155-56	2156-57	2157-58	2158-59	2159-60	2160-61	2161-62	2162-63	2163-64	2164-65	2165-66	2166-67	2167-68	2168-69	2169-70	2170-71	2171-72	2172-73	2173-74	2174-75	2175-76	2176-77	2177-78	2178-79	2179-80	2180-81	2181-82	2182-83	2183-84	2184-85	2185-86	2186-87	2187-88	2188-89	2189-90	2190-91	2191-92	2192-93	2193-94	2194-95	2195-96	2196-97	2197-98	2198-99	2199-00	2200-01	2201-02	2202-03	2203-04	2204-05	2205-06	2206-07	2207-08	2208-09	2209-10	2210-11	2211-12	2212-13	2213-14	2214-15	2215-16	2216-17	2217-18	2218-19	2219-20	2220-21	2221-22	2222-23	2223-24	2224-25	2225-26	2226-27	2227-28	2228-29	2229-30	2230-31	2231-32	2232-33	2233-34	2234-35	2235-36	2236-37	2237-38	2238-39	2239-40	2240-41	2241-42	2242-43	2243-44	2244-45	2245-46	2246-47	2247-48	2248-49	2249-50	2250-51	2251-52	2252-53	2253-54	2254-5
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825	2-0-4-6	825PAC00	503	64	15721.8	17181.8	1440	44.00	4.1427	4.2833	.1465	1631.232	62.6707
825	2-10-4-6	825PAC31	543	66	17161.8	18691.8	1440	44.00	4.3099	4.6532	.0623	1631.232	38.192
825	2-1-4-6	825PAC32	543	67	18626.4	20660.4	1440	44.00	4.1787	4.2771	.0704	1631.232	64.3225
825	2-52-4-6	825PAC33	543	70	20140.8	21590.8	1440	44.00	4.2318	4.3164	.0046	1631.232	51.8626
825	2-25-4-6	825PAC34	543	71	21581.4	23021.4	1440	44.00	4.2519	4.3244	.0025	1631.232	38.3146

[illegible][illegible][illegible][illegible]

DAILY GEOMETRIC AVERAGE CONCENTRATION = 0



[illegible]

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DATE..... STA. ID... SAMPLE NO..... STOP MIN.... ELAPS. TIME... FLOW..... INIT. WT.... FINL. WT.... NET. WT.... CONC..... CONC..... CHL. BY..... DATE CL.... COMMENTS.....
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DATE	NO.	DESCRIPTION	AMOUNT	BALANCE
12-22-86	809	809M33	---	---
12-29-86	809	809M34	---	---
		Equipment failure	---	---
		Equipment failure	---	---

MONTHLY GENETRIC AVERAGE CONCENTRATION = 0

Run	Time	Temp	Pressure	Flow	Equipment	Failure
009	01-03-87	80994635				Equipment failure
009	01-09-87	80994636				Equipment failure
009	01-15-87	80994637				Equipment failure
009	01-21-87	80994638				Equipment failure
009	01-27-87	80994639				Equipment failure

MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 0

[illegible]

MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 0

	89	7750.6	7902.2	1440.6	40.00	4.2203	4.2507	.0404	1631.9117	24.7562
R039M5	577	7902.2	80461.2	1440	40.00	4.2545	4.3450	.0505	1631.232	30.5582
R039M6	577	80461.2	81823.6	1357.4	40.00	4.1000	4.1033	.0093	1544.9907	6.0039
R039M7	577	82347.4	83987.4	1440	40.00	4.1708	4.1906	.0196	1631.232	12.1361
R039M8	577	85444.4	87397.4	1461	40.00	4.1459	4.1607	.0148	1555.0008	4.9435

MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 12.7943

[illegible]

INITIAL GEOMETRIC AVERAGE CONCENTRATION = 1A.5476

[illegible]

MONTHLY GEOMETRIC AVERAGE CONCENTRATION = 12.2491

829	8299650	577	120	105213.6	106533.6	1440	40.0	4.3351	1631.232	24.7653
829	8299661	577	123	108094.2	109533.2	1440	40.0	4.3310	1631.232	24.7616

INITIALLY GEOMETRIC AVERAGE CONCENTRATION = 29.9432

**MUL GEOMETRIC AVERAGE CONCENTRATION = 15.706!**

**APPENDIX B.3**  
**ASBESTOS DATA**

PROJECT NAME RMA TASK18  
PROJECT MANAGER Z. SMITH  
LAB COORDINATOR DAVE POWELL

[illegible]





ENVIRONMENTAL SCIENCE & ENGINEERING 02/03/88 STATUS:

PROJECT NAME RMA TASK18  
 PROJECT NUMBER 86927 0800  
 FIELD GROUP AQ6ASB  
 PROJECT MANAGER Z. SMITH  
 LAB COORDINATOR DAVE POWELL

SAMPLE ID/9

PARAMETERS	UNITS	STORET #	AQ6	AQ6
		METHOD	AQ6ASB	AQ6ASB
			30	31

DATE	03/28/87	04/09/87
TIME	00:00	00:00

ASBESTOS	# FIBERS/C	99060	<0.01	<0.01
		PCH		









**PAGES 2**

PROJECT NUMBER 86927 0800  
FIELD GROUP AQ12ASB

[illegible]

**APPENDIX B.4**  
**VOC DATA**

PROJECT NUMBER 86927 0500  
FIELD GROUP EIVOC  
EVOC

PROJECT NAME	RMA AIR (TASK18)
PROJECT MANAGER	
LAB COORDINATOR	DAVE POWELL

PARAMETERS	UNITS	STORET #	METHOD	SAMPLE ID/#									
				BF-15 E1VOC	BF-13 E1VOC	BF-12 E1VOC	BF-11 E1VOC	BF-7 E1VOC	BF-4 E2VOC	BF-7 E2VOC	BF-9 E2VOC	BF-14 E2VOC	BF-15 E2VOC
DATE				11/28/86	11/28/86	11/28/86	11/28/86	11/28/86	06/10/87	06/10/87	06/10/87	06/10/87	
TIME				13:50	13:47	13:41	13:34	13:28	00:00	00:00	00:00	00:00	
METHYLENE CHLORIDE	UG/M3	97217	C7	NA	45	NA	33	2500	<11	<11	<11	<11	
TRANS-1,2-DICHLOROETHYLENE	UG/M3	97218	C7	NA	<27	NA	<27	<27	<27	<27	<27	<27	
1,1-DICHLOROETHANE	UG/M3	97219	C7	NA	<27	NA	<27	<27	<27	<27	<27	<27	
CHLOROFORM	UG/M3	97220	C7	NA	<13	NA	<13	<13	<13	<13	30	<13	
1,2-DICHLOROETHANE	UG/M3	97221	C7	NA	<26	NA	<26	<26	<26	<26	<26	<26	
1,1,1-TRICHLOROETHANE	UG/M3	97222	C7	NA	<22	NA	<22	<22	<22	<22	<22	<22	
BENZENE	UG/M3	97223	C7	NA	<26	NA	<26	<26	<26	<26	<26	<26	
CARBON TETRACHLORIDE	UG/M3	97224	C7	NA	<12	NA	<12	<12	<12	<12	<12	<12	
TRICHLOROETHYLENE	UG/M3	97225	C7	NA	<19	NA	<19	<19	<19	<19	<19	<19	
BICYCLOHEPTADIENE	UG/M3	97226	C7	NA	<19	NA	<19	<19	<19	<19	<19	<19	
DIMETHYLDISULFIDE	UG/M3	97227	C7	NA	<22	NA	<22	<22	<22	<22	<22	<22	
METHYL ISOBUTYL KETONE	UG/M3	97228	C7	NA	<8	NA	<8	<8	<8	<8	<8	<8	
1,1,2-TRICHLOROETHANE	UG/M3	97229	C7	NA	<6	NA	<6	<6	<6	<6	<6	<6	
TOLUENE	UG/M3	97230	C7	NA	<7	NA	<7	<7	<7	<7	<7	<7	
TETRACHLOROETHYLENE	UG/M3	97231	C7	NA	<18	NA	<18	<18	<18	<18	<18	<18	
CHLOROBENZENE	UG/M3	97232	C7	NA	<29	NA	<29	<29	<29	<29	<29	<29	
ETHYLBENZENE	UG/M3	97233	C7	NA	<20	NA	<20	<20	<20	<20	<20	<20	
m- AND p-XYLENE	UG/M3	97234	C7	NA	<31	NA	<31	<31	<31	<31	<31	<31	
o-XYLENE	UG/M3	97235	C7	NA	<19	NA	<19	<19	<19	<19	<19	<19	
DICYCLOPENTADIENE	UG/M3	97236	C7	NA	<19	NA	<19	<19	<19	<19	<19	<19	





[illegible]



PROJECT NUMBER 86927 0500  
FIELD GROUP EIVOC  
PROJECT NAME RMA AIR (TASK18)  
PROJECT MANAGER  
LAB COORDINATOR DAVE POWELL

PARAMETERS	STORER #	UNITS	METHOD	BF-16 E2VOC	BF-4 E3VOC	BF-5 E3VOC	BF-6 E3VOC	BF-7 E3VOC	BF-8 E3VOC	BF-14 E3VOC	BF-15 E3VOC	BF-16 E3VOC	BF-3 E4VOC
DATE				06/10/87	06/22/87	06/22/87	06/22/87	06/22/87	06/22/87	06/22/87	06/22/87	06/22/87	07/02/87
TIME				00:00	14:53	14:54	14:45	14:42	14:47	14:49	14:50	14:58	00:00
DIBROMOCHLOROPROPANE	97237			<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
UG/M3	C7			AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
SAMPLE TYPE	71999			ARMO	ARMO	ARMO	ARMO	ARMO	ARMO	ARMO	ARMO	ARMO	ARMO
SITE TYPE 1	99759			-150	-150	-150	-150	-150	-150	-150	-150	-150	-150
SAMPLE DEPTH	99758			K	K	K	K	K	K	K	K	K	K
CM	0			RK	RK	RK	RK	RK	RK	RK	RK	RK	RK
SAMPLING TECHNIQUE	72005			80									
INSTALLATION CODE	99720												
SAMPLE	0												
UNK151	93151												
UG/M3	36												
UNK192	93192												
UG/M3	36												
UNK193	93193												
UG/M3	36												
UNK120	93120												
UG/M3	36												
UNK124	93124												
UG/M3	36												
UNK149	93149												
UG/M3	36												
UNK148	93148												
UG/M3	36												
UNK061	93061												
UG/M3	36												
UNK073	93073												
UG/M3	36												
UNK125	93125												
UG/M3	36												
UNK132	93132												
UG/M3	36												
UNK153	93153												
UG/M3	36												
UNK076	93076												
UG/M3	36												
UNK081	93081												
UG/M3	36												

1000

4000

10



PROJECT NUMBER 86927 0500  
FIELD GROUP EIVOC  
PROJECT NAME RMA AIR (TASK18)  
PROJECT MANAGER  
LAB COORDINATOR DAVE POWELL

PARAMETERS	STORER #	UNITS	BF-15 E4VOC	BF-13 E4VOC	BF-1 E4VOC	BF-5 E4VOC	BF-4 E4VOC	BF-3 E5VOC	BF-15 E5VOC	AQ11 E5VOC	BF-16 E5VOC
	METHOD		2	3	4	5	7	1	2	3	4
DATE			07/02/87	07/02/87	07/02/87	07/02/87	07/02/87	07/10/87	07/10/87	07/10/87	07/10/87
TIME			00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00
METHYLENE CHLORIDE	97217	UG/H3	<11	NA	NA	<11	<11	<11	<11	38	23
TRANS-1,2-DICHLOROET	97218	UG/H3	<27	NA	NA	<27	<27	<27	<27	<27	<27
HYLENE	97219	UG/H3	<27	NA	NA	<27	<27	<27	<27	<27	<27
1,1-DICHLOROETHANE	97220	UG/H3	<13	NA	NA	<13	<13	<13	<13	<13	<13
CHLOROFORM	97221	UG/H3	<26	NA	NA	<26	<26	<26	<26	<26	<26
1,2-DICHLOROETHANE	97222	UG/H3	<22	NA	NA	<22	<22	<22	<22	<22	<22
1,1,1-TRICHLOROETHAN	97223	UG/H3	<26	NA	NA	<26	<26	<26	<26	<26	<26
BENZENE	97224	UG/H3	<12	NA	NA	<12	<12	<12	<12	<12	<12
CARBON TETRACHLORIDE	97225	UG/H3	<19	NA	NA	<19	<19	<19	<19	<19	<19
TRICHLOROETHYLENE	97226	UG/H3	<19	NA	NA	<19	<19	<19	<19	<19	<19
BICYCLOHEPTADIENE	97227	UG/H3	<22	NA	NA	<22	<22	<22	<22	<22	<22
DIMETHYLDISULFIDE	97228	UG/H3	<8	NA	NA	<8	<8	<8	<8	<8	<8
METHYL ISOBUTYL KETO	97229	UG/H3	<6	NA	NA	<6	<6	<6	<6	<6	<6
NE	97230	UG/H3	<7	NA	NA	<7	<7	<7	<7	<7	<7
1,1,2-TRICHLOROETHAN	97231	UG/H3	<18	NA	NA	<18	<18	<18	<18	<18	<18
E	97232	UG/H3	<29	NA	NA	<29	<29	<29	<29	<29	<29
TOLUENE	97233	UG/H3	<20	NA	NA	<20	<20	<20	<20	<20	<20
TETRACHLOROETHYLENE	97234	UG/H3	<31	NA	NA	<31	<31	<31	<31	<31	<31
CHLOROBENZENE	97235	UG/H3	<19	NA	NA	<19	<19	<19	<19	<19	<19
ETHYLBENZENE	97236	UG/H3	<19	NA	NA	<19	<19	<19	<19	<19	<19
M- AND P-XYLENE	97237	UG/H3	<19	NA	NA	<19	<19	<19	<19	<19	<19
O-XYLENE	97238	UG/H3	<19	NA	NA	<19	<19	<19	<19	<19	<19
DICYCLOPENTADIENE	97239	UG/H3	<19	NA	NA	<19	<19	<19	<19	<19	<19

PROJECT NUMBER 86927 0500  
FIELD GROUP EIVOC  
PROJECT NAME RMA AIR (TASK18)  
PROJECT MANAGER  
LAB COORDINATOR DAVE POWELL

PARAMETERS	UNITS	STORET #	METHOD	BF-15	BF-13	BF-1	BF-5	BF-4	BF-3	BF-15	AQ11	BF-16
				E4VOC	E4VOC	E4VOC	E4VOC	E4VOC	E5VOC	E5VOC	E5VOC	E5VOC
				2	3	4	5	7	1	2	3	4
DATE				07/02/87	07/02/87	07/02/87	07/02/87	07/02/87	07/10/87	07/10/87	07/10/87	07/10/87
TIME				00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00
DIBROMOCHLOROPROPANE		97237		<40	NA	NA	<40	<40	<40	<40	<40	<40
UG/M3		C7		AR	NA	NA	AR	AR	AR	AR	AR	AR
SAMPLE TYPE		71999		ARMO	NA	NA	ARMO	ARMO	ARMO	ARMO	ARMO	ARMO
SITE TYPE 1		99759		-150	NA	NA	-150	-150	-150	-150	-150	-150
SAMPLE DEPTH		99758		K	NA	NA	K	K	K	K	K	K
CM		0		RK	NA	NA	RK	RK	RK	RK	RK	RK
SAMPLING TECHNIQUE		72005										
INSTALLATION CODE		99720										
SAMPLE		0										
UNK151		93151										
UG/M3		36										
UNK192		93192										
UG/M3		36										
UNK193		93193										
UG/M3		36										
UNK120		93120										
UG/M3		36										
UNK124		93124										
UG/M3		36										
UNK149		93149										
UG/M3		36										
UNK148		93148										
UG/M3		36										
UNK061		93061										
UG/M3		36										
UNK073		93073										
UG/M3		36										
UNK125		93125										
UG/M3		36										
UNK132		93132										
UG/M3		36										
UNK153		93153										
UG/M3		36										
UNK076		93076										
UG/M3		36										
UNK081		93081										
UG/M3		36										

PROJECT NUMBER 86927 0500 PROJECT NAME RMA AIR (TASK18)  
FIELD GROUP EIVOC PROJECT MANAGER  
EIVOC LAB COORDINATOR DAVE POWELL

PARAMETERS	UNITS	STORET #	SAMPLE ID/#															
			BF-15 E4VOC	BF-13 E4VOC	BF-1 E4VOC	AQ11 E4VOC	BF-5 E4VOC	BF-4 E4VOC	BF-3 E5VOC	BF-15 E5VOC	AQ11 E5VOC	BF-16 E5VOC						
DATE			07/02/87	07/02/87	07/02/87	07/02/87	07/02/87	07/02/87	07/10/87	07/10/87	07/10/87	07/10/87	07/10/87	07/10/87	07/10/87	07/10/87		
TIME			00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00		
UNK150		93150																
	UG/M3	36																
UNK071		93071																
	UG/M3	36																
UNK123		93123																
	UG/M3	36																
UNK160		93160																
	UG/M3	36																
UNK058		93058																
	UG/M3	36																
UNK152		93152																
	UG/M3	36																
UNK159		93159																
	UG/M3	36																
UNK166		93166																
	UG/M3	36																
UNK219		93219																
	UG/M3	36																
UNK074		93074							50									
	UG/M3	36																
UNK069		93069									20							
	UG/M3	36																
UNK072		93072									20							
	UG/M3	36																
UNK147		93147									10							
	UG/M3	36																
UNK167		93167									20							
	UG/M3	36																
UNK122		93122																
	UG/M3	36																
UNK068		93068																
	UG/M3	36																
UNK145		93145																
	UG/M3	36																
UNK092		93092																
	UG/M3	36																
UNK163		93163																
	UG/M3	36																
UNK077		93077																
	UG/M3	36																

100

PROJECT NUMBER 86927 0500  
FIELD GROUP EIVOC  
EVOC

[illegible]

PROJECT NUMBER 86927 0500 PROJECT NAME RMA AIR (TASK18)  
FIELD GROUP EIVOC PROJECT MANAGER  
EVOC LAB COORDINATOR DAVE POWELL

[illegible]

PROJECT NUMBER	86927	0500	PROJECT NAME	RMA AIR (TASK18)
FIELD GROUP	EIVOC		PROJECT MANAGER	
EVOC			LAB COORDINATOR	DAVE POWELL

[illegible]





PROJECT NUMBER 86927 0500  
FIELD GROUP EIVOC  
PROJECT NAME RHA AIR (TASK 18)  
PROJECT MANAGER  
LAB COORDINATOR DAVE POMELL

PARAMETERS	UNITS	STORET #	METHOD	DATE	TIME	BF-13 E6VOC	BF-5 E6VOC	BF-16 E7VOC	BF-15 E7VOC	BF-13 E7VOC	BF-12 E7VOC	BF-11 E7VOC	BF-7 E7VOC	BF-5 E7VOC	BF-2 E7VOC
DIBROMOCHLOROPROPANE	UG/M3	97237	C7	07/24/87	00:00	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
SAMPLE TYPE		71999	0	07/24/87	00:00	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
SITE TYPE 1		99759	0	07/24/87	00:00	ARMO	ARMO	ARMO	ARMO	ARMO	ARMO	ARMO	ARMO	ARMO	ARMO
SAMPLE DEPTH	CM	99758	0	07/24/87	00:00	-150	-150	-150	-150	-150	-150	-150	-150	-150	-150
SAMPLING TECHNIQUE		72005	0	07/24/87	00:00	K	K	K	K	K	K	K	K	K	K
INSTALLATION CODE		99720	0	07/24/87	00:00	RK	RK	RK	RK	RK	RK	RK	RK	RK	RK
SAMPLE		93151	0	07/24/87	00:00										
UNK151	UG/M3	36		07/24/87	00:00										
UNK192	UG/M3	36		07/24/87	00:00										
UNK193	UG/M3	36		07/24/87	00:00										
UNK120	UG/M3	36		07/24/87	00:00										
UNK124	UG/M3	36		07/24/87	00:00										
UNK149	UG/M3	36		07/24/87	00:00										
UNK148	UG/M3	36		07/24/87	00:00										
UNK061	UG/M3	36		07/24/87	00:00										
UNK073	UG/M3	36		07/24/87	00:00										
UNK125	UG/M3	36		07/24/87	00:00										
UNK132	UG/M3	36		07/24/87	00:00										
UNK153	UG/M3	36		07/24/87	00:00										
UNK076	UG/M3	36		07/24/87	00:00										
UNK081	UG/M3	36		07/24/87	00:00										



PROJECT NUMBER 86927 0500 PROJECT NAME RMA AIR (TASK 18)  
 FIELD GROUP EIVOC PROJECT MANAGER  
 EVOC LAB COORDINATOR DAVE POWELL

SAMPLE ID/8

PARAMETERS	UNITS	STORET #	BF-9 EIVOC METHOD
DATE			08/05/87
TIME			00:00
METHYLENE CHLORIDE	UG/M3	97217	38
TRANS-1,2-DICHLOROETHYLENE	UG/M3	97218	<27
1,1-DICHLOROETHANE	UG/M3	97219	<27
CHLOROFORM	UG/M3	97220	<13
1,2-DICHLOROETHANE	UG/M3	97221	<26
1,1,1-TRICHLOROETHANE	UG/M3	97222	<22
BENZENE	UG/M3	97223	<26
CARBON TETRACHLORIDE	UG/M3	97224	<12
TRICHLOROETHYLENE	UG/M3	97225	<19
BICYCLOHEPTADIENE	UG/M3	97226	<19
DIMETHYLDISULFIDE	UG/M3	97227	<22
METHYL ISOBUTYL KETONE	UG/M3	97228	<8
1,1,2-TRICHLOROETHANE	UG/M3	97229	<6
TOLUENE	UG/M3	97230	<7
TETRACHLOROETHYLENE	UG/M3	97231	<18
CHLOROBENZENE	UG/M3	97232	<29
ETHYLBENZENE	UG/M3	97233	<20
M- AND P-XYLENE	UG/M3	97234	<31
O-XYLENE	UG/M3	97235	<19
DICYCLOPENTADIENE	UG/M3	97236	<19

PROJECT NUMBER 86927 0500 PROJECT NAME RHA AIR (TASK18)  
 FIELD GROUP EIVOC PROJECT MANAGER  
 EVOC LAB COORDINATOR DAVE POWELL

SAMPLE ID/#

PARAMETERS UNITS STORET #  
 BF-9  
 E7VOC  
 METHOD 9

DATE 08/05/87  
 TIME 00:00

DIBROMOCHLOROPROPANE 97237 <40  
 UG/M3 C7

SAMPLE TYPE 71999 AR  
 0

SITE TYPE 1 99759 ARMO  
 0

SAMPLE DEPTH 99758 -150  
 CM 0

SAMPLING TECHNIQUE 72005 K  
 0

INSTALLATION CODE 99720 RK  
 SAMPLE 0

UNK151 93151  
 UG/M3 36

UNK192 93192  
 UG/M3 36

UNK193 93193  
 UG/M3 36

UNK120 93120  
 UG/M3 36

UNK124 93124  
 UG/M3 36

UNK149 93149  
 UG/M3 36

UNK148 93148  
 UG/M3 36

UNK061 93061  
 UG/M3 36

UNK073 93073  
 UG/M3 36

UNK125 93125  
 UG/M3 36

UNK132 93132  
 UG/M3 36

UNK153 93153  
 UG/M3 36

UNK076 93076  
 UG/M3 36

UNK081 93081  
 UG/M3 36

PROJECT NUMBER 86927 0500 PROJECT NAME RMA AIR (TASK 18)  
 FIELD GROUP E1VOC PROJECT MANAGER  
 EVOC LAB COORDINATOR DAVE POWELL

SAMPLE ID/8

PARAMETERS UNITS  
 STORET # BF-9  
 METHOD E7VOC 9

DATE 08/05/87  
 TIME 00:00

UNK 150	93150	UG/M3	36
UNK 071	93071	UG/M3	36
UNK 123	93123	UG/M3	36
UNK 160	93160	UG/M3	36
UNK 058	93058	UG/M3	36
UNK 152	93152	UG/M3	36
UNK 159	93159	UG/M3	36
UNK 166	93166	UG/M3	36
UNK 219	93219	UG/M3	36
UNK 074	93074	UG/M3	36
UNK 069	93069	UG/M3	36
UNK 072	93072	UG/M3	36
UNK 147	93147	UG/M3	36
UNK 167	93167	UG/M3	36
UNK 122	93122	UG/M3	36
UNK 068	93068	UG/M3	36
UNK 145	93145	UG/M3	36
UNK 092	93092	UG/M3	36
UNK 163	93163	UG/M3	36
UNK 077	93077	UG/M3	36

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**APPENDIX B.5**  
**SVOC DATA**





PROJECT NUMBER 86927 0500  
FIELD GROUP EISVO  
ESVO

PARAMETERS	UNITS	STORET #	METHOD	AQ36-2		AQ36-3		AQ36-5		AQ36-6		BF-4	BF-6
				E1SVO	E1SVO	E1SVO	E1SVO	E3SVO	E3SVO	E3SVO	E3SVO		
DATE													
TIME													
1,4-DITHIANE	UG/M3	97268	D7	05/13/87	05/13/87	05/13/87	05/13/87	05/13/87	05/13/87	05/13/87	05/13/87	06/12/87	06/12/87
				00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00
				<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023
HEXACHLOROCYCLOPENTA	UG/M3	97269	D7	05/13/87	05/13/87	05/13/87	05/13/87	05/13/87	05/13/87	05/13/87	05/13/87	06/12/87	06/12/87
DIENE	UG/M3			00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00
				<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023
OXATHIANE	UG/M3	97270	D7	05/13/87	05/13/87	05/13/87	05/13/87	05/13/87	05/13/87	05/13/87	05/13/87	06/12/87	06/12/87
				00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00
				<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023
WAPONA	UG/M3	97271	D7	05/13/87	05/13/87	05/13/87	05/13/87	05/13/87	05/13/87	05/13/87	05/13/87	06/12/87	06/12/87
				00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00
				<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023
ATRAZINE	UG/M3	97250	D7	05/13/87	05/13/87	05/13/87	05/13/87	05/13/87	05/13/87	05/13/87	05/13/87	06/12/87	06/12/87
				00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00
				<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023
P,P'-DDE	UG/M3	97251	D7	05/13/87	05/13/87	05/13/87	05/13/87	05/13/87	05/13/87	05/13/87	05/13/87	06/12/87	06/12/87
				00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00
				<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011
P,P'-DDT	UG/M3	97252	D7	05/13/87	05/13/87	05/13/87	05/13/87	05/13/87	05/13/87	05/13/87	05/13/87	06/12/87	06/12/87
				00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00
				<0.022	<0.022	<0.022	<0.022	<0.022	<0.022	<0.022	<0.022	<0.022	<0.022
UNK600	UG/M3	93600	0	05/13/87	05/13/87	05/13/87	05/13/87	05/13/87	05/13/87	05/13/87	05/13/87	06/12/87	06/12/87
				00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00
				0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
UNK603	UG/M3	93603	0	05/13/87	05/13/87	05/13/87	05/13/87	05/13/87	05/13/87	05/13/87	05/13/87	06/12/87	06/12/87
				00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00	00:00
				0									

PROJECT NAME RMA AIR (TASK18)  
PROJECT MANAGER  
LAB COORDINATOR DAVE POWELL

[illegible]

PROJECT NUMBER 86927 0500  
FIELD GROUP EISVO  
ESVO

PROJECT NAME RMA AIR (TASK18)  
PROJECT MANAGER  
LAB COORDINATOR DAVE POWELL

[illegible]

UNK624	UG/M3	93624 0
UNK632	UG/M3	93632 0
UNK568	UG/M3	93568 0
UNK587	UG/M3	93587 0

PROJECT NUMBER	86927	0500	PROJECT NAME	RMA AIR (TASK18)
FIELD GROUP	E1SV0		PROJECT MANAGER	
ESV0			LAB COORDINATOR	DAVE POWELL

[illegible]



PROJECT NUMBER 86927 0500 PROJECT NAME RMA AIR (TASK 18)  
 FIELD GROUP EISVO PROJECT MANAGER  
 ESVO LAB COORDINATOR DAVE POWELL

PARAMETERS	UNITS	STORET #	METHOD	DATE	TIME	BF-3	ESVO	AQ11	BF-4	ESVO	AQ11	BF-3	ESVO	AQ11	BF-3	ESVO	AQ11
UNK630	UG/M3	93630	0	06/12/87	00:00	0.04	0.05	0.1	0.03	0.06	0.03	0.05	0.02	0.02	0.02	0.02	0.1
UNK633	UG/M3	93633	0	06/12/87	00:00	0.04	0.05	0.1	0.03	0.06	0.03	0.05	0.02	0.02	0.02	0.02	0.1
UNK652	UG/M3	93652	0	06/12/87	00:00	0.04	0.05	0.1	0.03	0.06	0.03	0.05	0.02	0.02	0.02	0.02	0.1
UNK666	UG/M3	93666	0	06/12/87	00:00	0.04	0.05	0.1	0.03	0.06	0.03	0.05	0.02	0.02	0.02	0.02	0.1
UNK609	UG/M3	93609	0	06/12/87	00:00	0.04	0.05	0.1	0.03	0.06	0.03	0.05	0.02	0.02	0.02	0.02	0.1
UNK548	UG/M3	93548	0	06/12/87	00:00	0.04	0.05	0.1	0.03	0.06	0.03	0.05	0.02	0.02	0.02	0.02	0.1
UNK601	UG/M3	93601	0	06/12/87	00:00	0.04	0.05	0.1	0.03	0.06	0.03	0.05	0.02	0.02	0.02	0.02	0.1
UNK572	UG/M3	93572	0	06/12/87	00:00	0.04	0.05	0.1	0.03	0.06	0.03	0.05	0.02	0.02	0.02	0.02	0.1
UNK580	UG/M3	93580	0	06/12/87	00:00	0.04	0.05	0.1	0.03	0.06	0.03	0.05	0.02	0.02	0.02	0.02	0.1
UNK581	UG/M3	93581	0	06/12/87	00:00	0.04	0.05	0.1	0.03	0.06	0.03	0.05	0.02	0.02	0.02	0.02	0.1
UNK591	UG/M3	93591	0	06/12/87	00:00	0.04	0.05	0.1	0.03	0.06	0.03	0.05	0.02	0.02	0.02	0.02	0.1
UNK605	UG/M3	93605	0	06/12/87	00:00	0.04	0.05	0.1	0.03	0.06	0.03	0.05	0.02	0.02	0.02	0.02	0.1
UNK562	UG/M3	93562	0	06/12/87	00:00	0.04	0.05	0.1	0.03	0.06	0.03	0.05	0.02	0.02	0.02	0.02	0.1
UNK620	UG/M3	93620	0	06/12/87	00:00	0.04	0.05	0.1	0.03	0.06	0.03	0.05	0.02	0.02	0.02	0.02	0.1
UNK625	UG/M3	93625	0	06/12/87	00:00	0.04	0.05	0.1	0.03	0.06	0.03	0.05	0.02	0.02	0.02	0.02	0.1
UNK627	UG/M3	93627	0	06/12/87	00:00	0.04	0.05	0.1	0.03	0.06	0.03	0.05	0.02	0.02	0.02	0.02	0.1
UNK586	UG/M3	93586	0	06/12/87	00:00	0.04	0.05	0.1	0.03	0.06	0.03	0.05	0.02	0.02	0.02	0.02	0.1
UNK589	UG/M3	93589	0	06/12/87	00:00	0.04	0.05	0.1	0.03	0.06	0.03	0.05	0.02	0.02	0.02	0.02	0.1
UNK602	UG/M3	93602	0	06/12/87	00:00	0.04	0.05	0.1	0.03	0.06	0.03	0.05	0.02	0.02	0.02	0.02	0.1
UNK613	UG/M3	93613	0	06/12/87	00:00	0.04	0.05	0.1	0.03	0.06	0.03	0.05	0.02	0.02	0.02	0.02	0.1

PROJECT NUMBER 86927 0500  
 FIELD GROUP EISVO  
 ESVO

PROJECT NAME RMA AIR (TASK 18)  
 PROJECT MANAGER  
 LAB COORDINATOR DAVE POMELL

PARAMETERS	UNITS	STORET #	METHOD	BF-3	AQ11	BF-4	BF-6	BF-3	AQ11
				ESSVO	ESSVO	ESSVO	ESSVO	ESSVO	ESSVO
				3	4	1	2	3	4
DATE				06/12/87	06/12/87	06/18/87	06/18/87	06/18/87	06/18/87
TIME				00:00	00:00	00:00	00:00	00:00	00:00
UNK624	UG/M3	93624				0.05		0.04	
		0							
UNK632	UG/M3	93632				0.06			
		0							
UNK568	UG/M3	93568					0.01		
		0							
UNK587	UG/M3	93587						0.02	
		0							

**APPENDIX B.6**  
**METALS DATA**



[illegible]

DATE	STA. ID	SAMPLE NO.	SAMPLER NO.	FILTER NO.	INIT. TIME	FINAL TIME	ELAPS. TIME	FLOW	VOLUME	CHK. BY	DATE	COMMENTS
06-17-87	A35	E7MET13	565	30	70591.2	71950.3	1359.1	44.2	1771.1861	SAK	2-1-88	
07-09-87	A36	E1MET15	555		71980.4	73418.5	1438.1	42.6	1796.3352	SAK	2-1-88	
07-15-87	A36	E1MET17	565	91097	74310.7	75747.1	1436.4	40.1	1545.9441	SAK	2-1-88	
08-17-87	A39	E1MET15	564	607040	75873.2	77422.0	1548.8	42.0	1916.5795	SAK	2-1-88	
08-11-87	A42	E1MET19	564	601061	83223.9	84694.5	1470.6	41.8	1921.3506	SAK	2-1-88	
08-13-87	A38	E1MET18	564	601141	84694.5	85165.8	1471.3	40.5	1846.1349	SAK	2-1-88	
08-19-87	A38	E1MET18	564	-----	-----	-----	-----	-----	-----	SAK	2-1-88	EQUIPMENT FAILURE
08-08-87	A38	E1MET16	564	1271	92048.0	93515.9	1467.9	40.4	1833.9329	SAK	2-1-88	
08-25-87	A39	E1MET15	564	0034	97929.0	99396.8	1467.8	41.4	1878.9342	SAK	2-1-88	
08-29-87	A38	E1MET16	564	-----	99356.8	100854.8	1468	40.6	1924.1154	SAK	2-1-88	
07-16-87	A32	E1MET15	564	01002	1527.8	3000.9	1473.1	38.1	1715.9243	SAK	2-1-88	
08-23-87	A39	E1MET17	579	0032	62483.5	65949.9	1456.4	41.6	1744.1955	SAK	2-1-88	
07-09-87	A09	E1MET18	579	-----	65949.9	65415.4	1465.5	40.4	1655.4731	SAK	2-1-88	
07-16-87	A39	E1MET17	579	01001	65980.9	67449.0	1468.1	39.6	1614.3162	SAK	2-1-88	
08-29-87	B3A	E1MET11	575	1009	350.8	1725.8	1375	54.9	2230.9798	SAK	2-1-88	
08-15-87	A011	E1MET14	-----	-----	-----	-----	-----	-----	-----	SAK	2-1-88	EQUIPMENT FAILURE
08-17-87	A011	E1MET16	568	25	89071.2	90499.7	1428.5	40.0	1677.3672	SAK	2-1-88	
08-17-87	A38	E1MET13	690	607050	24927.4	26366.2	1438.8	48.5	2299.6529	SAK	2-1-88	
08-11-87	A05H	E1MET15	690	601051	26366.2	27805.1	1438.9	47.7	2275.0402	SAK	2-1-88	
08-13-87	A05H	E1MET15	690	601151	27806.1	29245.1	1439	43.7	2022.679	SAK	2-1-88	
08-19-87	A38H	E1MET17	690	121	29245.1	30681.7	1436.6	44.5	2114.9126	SAK	2-1-88	
08-05-87	A05H	E1MET17	690	1281	30681.7	32120.9	1439.2	46.4	2186.7476	SAK	2-1-88	
08-12-87	A38H	E1MET16	690	7	32120.9	32121.0	.1	46.0	.1515	SAK	2-1-88	
08-14-87	A05H	E1MET16	690	11	32121.0	33560.4	1439.4	46.1	2173.2754	SAK	2-1-88	
08-12-87	A05H	E1MET17	564	6	94986.1	96457.2	1471.1	43.0	1970.3022	SAK	2-1-88	
08-14-87	A05H	E1MET17	564	10	96457.2	97929.1	1471.9	41.6	1897.3188	SAK	2-1-88	
08-17-87	A37H	E1MET15	569	607050	48049.7	49502.4	1452.7	45.0	1869.4758	SAK	2-1-88	
08-11-87	A05H	E1MET17	569	61111	55326.4	56781.3	1454.9	43.3	1813.8176	SAK	2-1-88	
08-13-87	A05H	E1MET15	569	601131	56781.3	58235.0	1453.7	42.3	1761.1784	SAK	2-1-88	
08-19-87	A05H	E1MET15	569	119	58292.5	59747.9	1455.4	42.0	1764.0453	SAK	2-1-88	
08-05-87	A05H	E1MET15	569	1251	64113.0	65565.3	1452.3	43.0	1781.3085	SAK	2-1-88	
08-12-87	A05H	E1MET15	569	5	67017.8	68470.6	1452.8	44.2	1840.0811	SAK	2-1-88	
08-14-87	A05H	E1MET15	569	12	68470.6	69922.7	1452.1	42.8	1777.3609	SAK	2-1-88	
08-11-87	A05H	E1MET17	565	61091	64322.8	65871.0	1438.2	47.3	2012.8235	SAK	2-1-88	
08-13-87	A05H	E1MET17	565	601161	65871.0	68416.4	1445.4	40.0	145.1974	SAK	2-1-88	
08-19-87	A05H	E1MET18	584	112	68416.4	69856.4	1440	45.2	1530.8017	SAK	2-1-88	
08-05-87	A05H	E1MET18	584	1291	68254.4	69877.8	1443.4	47.6	1837.5533	SAK	2-1-88	
09-01-87	A05H	E1MET12	575	1010	1725.8	3169.3	1443.5	54.4	2326.1573	SAK	2-1-88	
09-03-87	A05H	E1MET13	575	1011	3169.3	4619.6	1450.3	55.2	2345.9965	SAK	2-1-88	
09-08-87	A05H	E1MET14	575	1013	4619.6	6085.8	1466.2	55.1	2386.6616	SAK	2-1-88	
08-16-87	A05H	E1MET15	584	17	69143.6	70586.5	1442.9	48.1	1855.4351	SAK	2-1-88	
08-17-87	A05H	E1MET17	584	26	70586.5	71960.3	1373.8	50.8	1890.4155	SAK	2-1-88	
08-23-87	A05H	E1MET15	580	0035	70487.7	71910.3	1422.6	39.3	1684.8746	SAK	2-1-88	
07-09-87	A05H	E1MET15	566	-----	71910.3	73396.3	1465.9	43.8	1863.4209	SAK	2-1-88	
07-16-87	A05H	E1MET16	560	01003	73374.2	75399.1	1424.9	37.8	1570.7286	SAK	2-1-88	
08-16-87	A05H	E1MET17	690	20	35001.1	35001.1	1440.7	48.2	2273.2464	SAK	2-1-88	
08-17-87	A05H	E1MET18	690	27	35001.1	36363.0	1361.9	50.0	2245.2256	SAK	2-1-88	
08-23-87	A05H	E1MET18	12690	0033	36363.0	37805.8	1442.8	48.6	2325.8366	SAK	2-1-88	
07-09-87	A05H	E1MET17	580	-----	37805.8	39333.5	1427.1	40.2	1581.4361	SAK	2-1-88	
07-16-87	A05H	E1MET15	566	01004	39333.5	40783.3	1449.8	37.4	1582.165	SAK	2-1-88	
08-16-87	A05H	E1MET16	580	16	40783.3	42918.7	1435.1	43.4	1827.1984	SAK	2-1-88	
08-17-87	A05H	E1MET19	590	31	42918.7	4487.7	1469	43.8	1916.4025	SAK	2-1-88	

FM METAL DATA 01 FEB 1959

DATE	STA. NO.	SAMPLE NO.	SAMPLED NO.	FLTES. NO.	START. MIN.	STOP. MIN.	ELAPS. TIME (Min)	FLOW (cc/min)	VOLUME (cc)	CHL. BY	DATE CH.	COMPE. TO
06-12-57	4095	ELNET19	577	071040	9734	---	---	---	---	---	---	---
06-12-57	4099	ELNET19	577	071040	9734	1440	40.0	1631.232	---	---	---	---
06-12-57	4099	ELNET19	577	071110	10324	1440	40.0	1631.232	---	---	---	---
06-12-57	4099	ELNET19	577	106455	10324	1440	40.0	1631.232	---	---	---	---
06-12-57	4099	ELNET19	577	7201	106455	1440	40.0	1631.232	---	---	---	---
06-12-57	4099	ELNET19	577	8	106536	110976	1440	40.0	1631.232	---	---	---
06-12-57	4099	ELNET19	577	9	110976	112416	1440	40.0	1631.232	---	---	---
06-12-57	4099	ELNET19	577	0039	112416	114602.4	2187.6	40.0	2478.1133	---	---	---
06-12-57	4099	ELNET17	583	81691	42756	44196	1440	40.0	1631.232	---	---	---
06-12-57	4099	ELNET19	577	807100	59351	130791.6	1440.6	40	1631.9117	---	---	---

[illegible]

PROJECT NAME RMA AIR (TASK18)  
PROJECT MANAGER  
LAB COORDINATOR DAVE POWELL

[illegible]

[illegible]

[illegible]

PROJECT NUMBER 86927 0500  
FIELD GROUP EIMET  
ENMET  
PROJECT NAME RMA AIR (TASK18)  
PROJECT MANAGER  
LAB COORDINATOR DAVE POWELL

[illegible]



PROJECT NUMBER 86927 0500  
FIELD GROUP EIMET  
EIMET

PROJECT NAME RMA AIR (TASK18)  
PROJECT MANAGER  
LAB COORDINATOR DAVE POWELL

[illegible]

PROJECT NUMBER 86927 0500  
FIELD GROUP EIMET  
EIMET

PROJECT NAME RMA AIR (TASK18)  
PROJECT MANAGER  
LAB COORDINATOR DAVE POWELL

[illegible]

PROJECT NUMBER 86927 0500  
FIELD GROUP EIMET  
EIMET

PROJECT NAME RMA AIR (TASK18)  
PROJECT MANAGER  
LAB COORDINATOR DAVE POWELL

[illegible]



PROJECT NAME RMA AIR (TASK 18)  
PROJECT MANAGER  
LAB COORDINATOR DAVE POWELL

PARAMETERS	STORET # METHOD	A09 E12MET	SAMPLE ID/#			
			AQ36-2 E13MET	AQ36-2 E13MET	AQ36-2 E13MET	AQ36-2 E13MET
UNITS			1	2	3	4
DATE TIME		07/16/87 00:00	07/16/87 00:00	08/24/87 00:00	09/01/87 00:00	09/09/87 00:00
CADMIUM,AIR	97162 B7	<0.002	<0.002	0.005	<0.002	<0.002
UG/M3						
CHROMIUM,AIR	97163 B7	<0.003	<0.003	<0.003	0.005	<0.003
UG/M3						
COPPER,AIR	97141 B7	0.065	0.082	0.864	>0.226	0.785
UG/M3						
LEAD,AIR	97164 B7	<0.008	<0.008	0.022	0.044	0.021
UG/M3						
ZINC,AIR	97166 B7	<0.485	<0.485	<0.485	2.45	<0.485
UG/M3						
ARSENIC,AIR	97138 B7	<0.003	<0.003	<0.003	<0.003	<0.003
UG/M3						
SAMPLE TYPE	71999 0	AR	AR	AR	AR	AR
SITE TYPE I	99759 0	ARMO	ARMO	ARMO	ARMO	ARMO
SAMPLE DEPTH CM	99758 0	-215	H	-120	-120	-120
SAMPLING TECHNIQUE	72005 0	H	H	H	H	H
INSTALLATION CODE SAMPLE	99720 0	RK	RK	RK	RK	RK

PROJECT NAME RNA AIR (TASK18)  
PROJECT MANAGER  
LAB COORDINATOR DAVE POWELL

[illegible]

PROJECT NUMBER 86927 0500  
FIELD GROUP E I H G  
ENGX

PROJECT NAME RMA AIR (TASK18)  
PROJECT MANAGER  
LAB COORDINATOR DAVE POWELL

[illegible]

PROJECT NAME RMA AIR (TASK18)  
PROJECT MANAGER  
LAB COORDINATOR DAVE POWELL

[illegible]



PROJECT NAME	RMA AIR (TASK18)
PROJECT MANAGER	
LAB COORDINATOR	DAVE POWELL

[illegible]

PARAMETERS	UNITS
------------	-------

DATE  
TIME

**MERCURY, AIR** **UG/M3**

**SAMPLE TYPE**

SITE TYPE 1

**SAMPLE DEPTH**

## SAMPLING TECHNIQUE

INSTALLATION CODE  
SAMPLE

[illegible]

PROJECT NUMBER 86927 0500		PROJECT NAME RMA AIR (TASK18)		PROJECT MANAGER		LAB COORDINATOR DAVE POWELL	
FIELD GROUP E1HG		FIELD GROUP E1HG		FIELD GROUP E1HG		FIELD GROUP E1HG	
ENGX		ENGX		ENGX		ENGX	
PARAMETERS	STORET #	AQ3	AQ5	AQ6	AQ36-2	AQ9	AQ8
UNITS	METHOD	E1HG	E1HG	E1HG	E1HG	E1HG	E1HG
DATE		07/09/87	07/09/87	07/09/87	07/09/87	07/09/87	07/09/87
TIME		00:00	00:00	00:00	00:00	00:00	00:00
MERCURY, AIR	97165	<0.063	<0.063	<0.063	<0.063	<0.063	<0.063
UG/H3	A7						
SAMPLE TYPE	71999	AR	AR	AR	AR	AR	AR
SITE TYPE 1	99759	ARMO	ARMO	ARMO	ARMO	ARMO	ARMO
SAMPLE DEPTH	99758	-150	-150	-150	-150	-150	-150
CM	0						
SAMPLING TECHNIQUE	72005	K	K	K	K	K	K
INSTALLATION CODE	99720	RK	RK	RK	RK	RK	RK
SAMPLE	0						

PROJECT NUMBER 86927 0500 PROJECT NAME RMA AIR (TASK18)  
 FIELD GROUP E1HG PROJECT MANAGER  
 ENGX LAB COORDINATOR DAVE POWELL

SAMPLE ID/#

PARAMETERS	STORER #	UNIT	AQ1	AQ6	AQ3	AQ36-2	SAMPLE ID/#
	E12HG		E12HG	E12HG	E12HG	E12HG	
	METHOD		5	6	7	8	
DATE	07/16/87		07/16/87	07/16/87	07/16/87	07/16/87	
TIME	00:00		00:00	00:00	00:00	00:00	
MERCURY, AIR	97165		<0.063	<0.063	<0.063	<0.063	
UG/M3	A7						
SAMPLE TYPE	71999		AR	AR	AR	AR	
	0						
SITE TYPE 1	99759		ARMO	ARMO	ARMO	ARMO	
	0						
SAMPLE DEPTH	99758		-150	-150	-150	-150	
CM	0						
SAMPLING TECHNIQUE	72005		K	K	K	K	
	0						
INSTALLATION CODE	99720		RK	RK	RK	RK	
SAMPLE	0						

**APPENDIX C**  
**PARTICULATE MATTER**  
**DATA SUMMARY**

Table C.1. Total Suspended Particulates (TSP) Data Summary

Month	Average Monthly TSP Concentration (ug/m <sup>3</sup> )*												
	AQ1	AQ2	AQ3	AQ4	AQ5	AQ6	AQ7	AQ8	AQ9	AQ9x	AQ10	AQ11	AQ12
June 1986	62.8	79.3	48.9	39.3	36.2	36.9	—	43.6	39.0	—	50.2	45.1	46.1
July	47.2	64.3	42.4	46.8	—	33.1	41.2	41.4	46.0	—	46.0	46.6	42.9
August	57.7	61.4	41.8	—	—	—	42.7	48.5	55.3	—	45.5	46.6	40.4
September	52.4	53.0	36.7	—	—	—	40.6	40.6	40.5	—	—	38.9	35.3
October	47.3	37.1	21.4	—	41.6	44.6	27.9	26.4	20.7	44.4	—	22.9	20.9
November	46.1	45.4	24.5	—	29.7	27.9	28.7	36.3	20.8	25.6	—	26.3	24.2
December	102.2	78.3	50.9	—	77.6	60.9	68.1	68.9	57.7	58.6	—	62.1	53.0
January 1987	56.9	41.6	28.2	—	39.2	41.8	32.7	25.6	29.7	29.5	—	27.6	26.4
February	43.7	—	25.6	—	33.6	29.3	28.4	32.8	28.9	28.8	—	26.2	23.9
March	23.9	25.4	15.4	—	20.0	16.0	15.8	19.3	17.4	13.6	5.9	18.4	20.8
April	46.2	36.4	30.2	—	40.1	31.9	36.0	35.6	32.0	31.4	—	39.2	30.9
May	20.9	24.6	16.8	—	17.6	21.5	19.2	15.4	14.6	15.8	—	19.9	16.8
June	44.7	54.9	43.6	—	42.9	41.3	42.7	42.9	43.5	45.0	—	45.1	43.4
Annual Average	46.8	46.9	30.6	(429)**	(35.0)**	(33.1)**	33.0	34.3	31.5	29.6	(28.1)**	33.5	30.8
Range of Individual 24-hour samples	7.1-143.3	11.5-111.9	4.4-80.5	38.5-46.8	5.7-109.1	6.2-151.4	6.2-100.8	7.3-95.1	5.4-81.5	6.6-83.4	5.9-70.7	5.6-90.8	5.8-77.1

\* Federal/State TSP Standards - Annual Primary - 75 ug/m<sup>3</sup>  
Secondary - 60 ug/m<sup>3</sup>

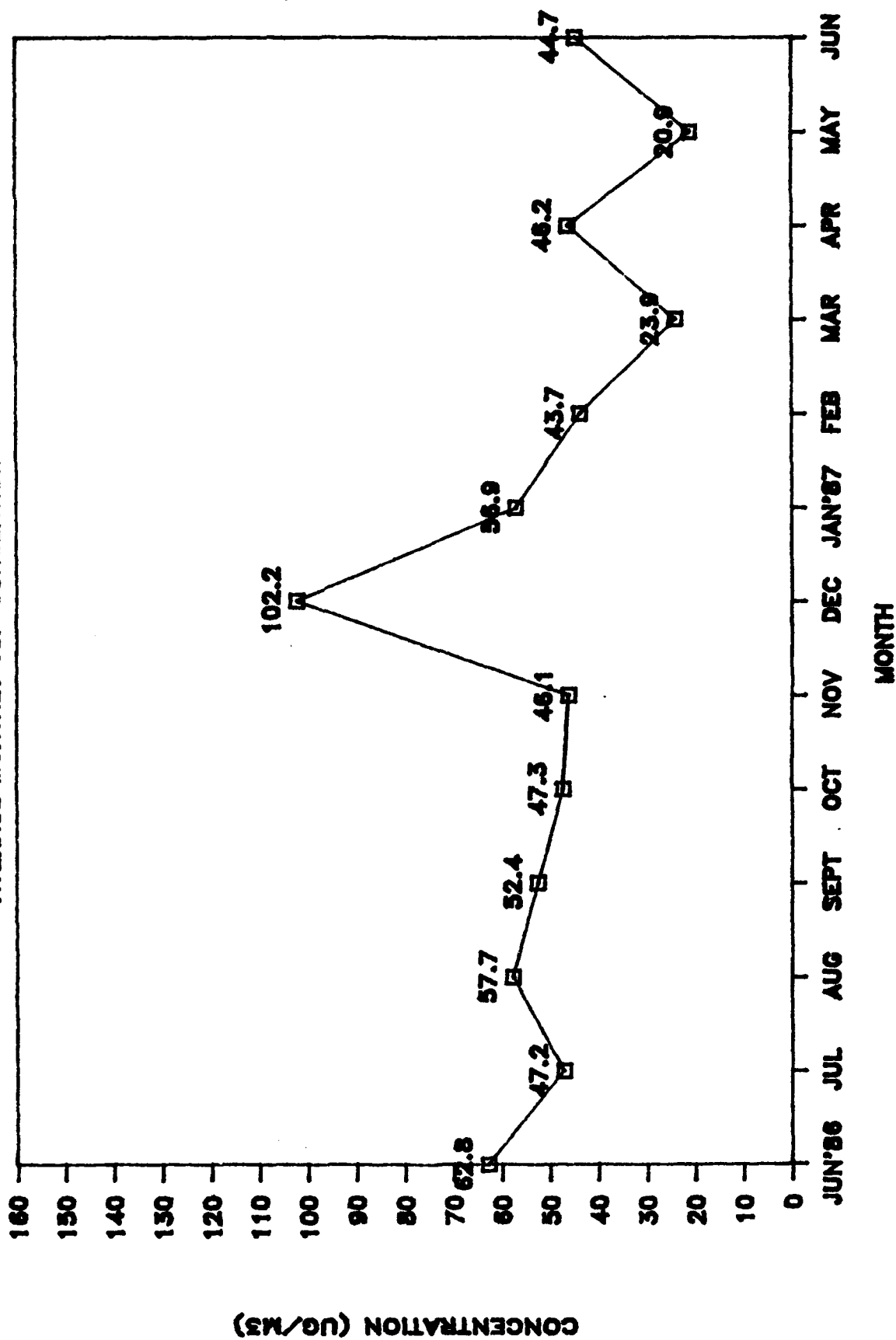
24-Hour Primary - 260 ug/m<sup>3</sup>  
Secondary - 150 ug/m<sup>3</sup>

\*\* Incomplete Sampling Frequency.

**APPENDIX C.1**  
**TSP SUMMARY**

# STATION AQ1

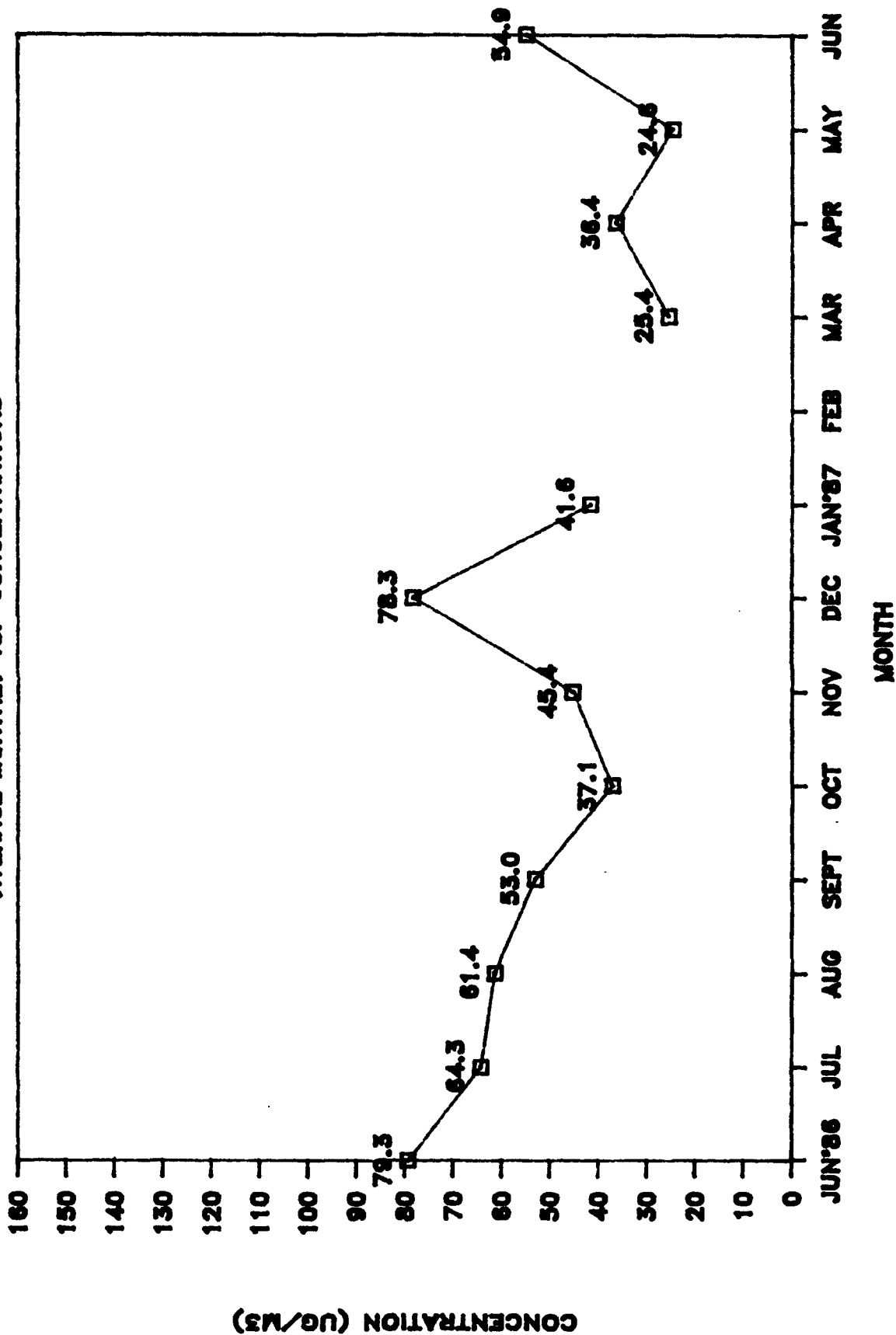
AVERAGE MONTHLY TSP CONCENTRATIONS





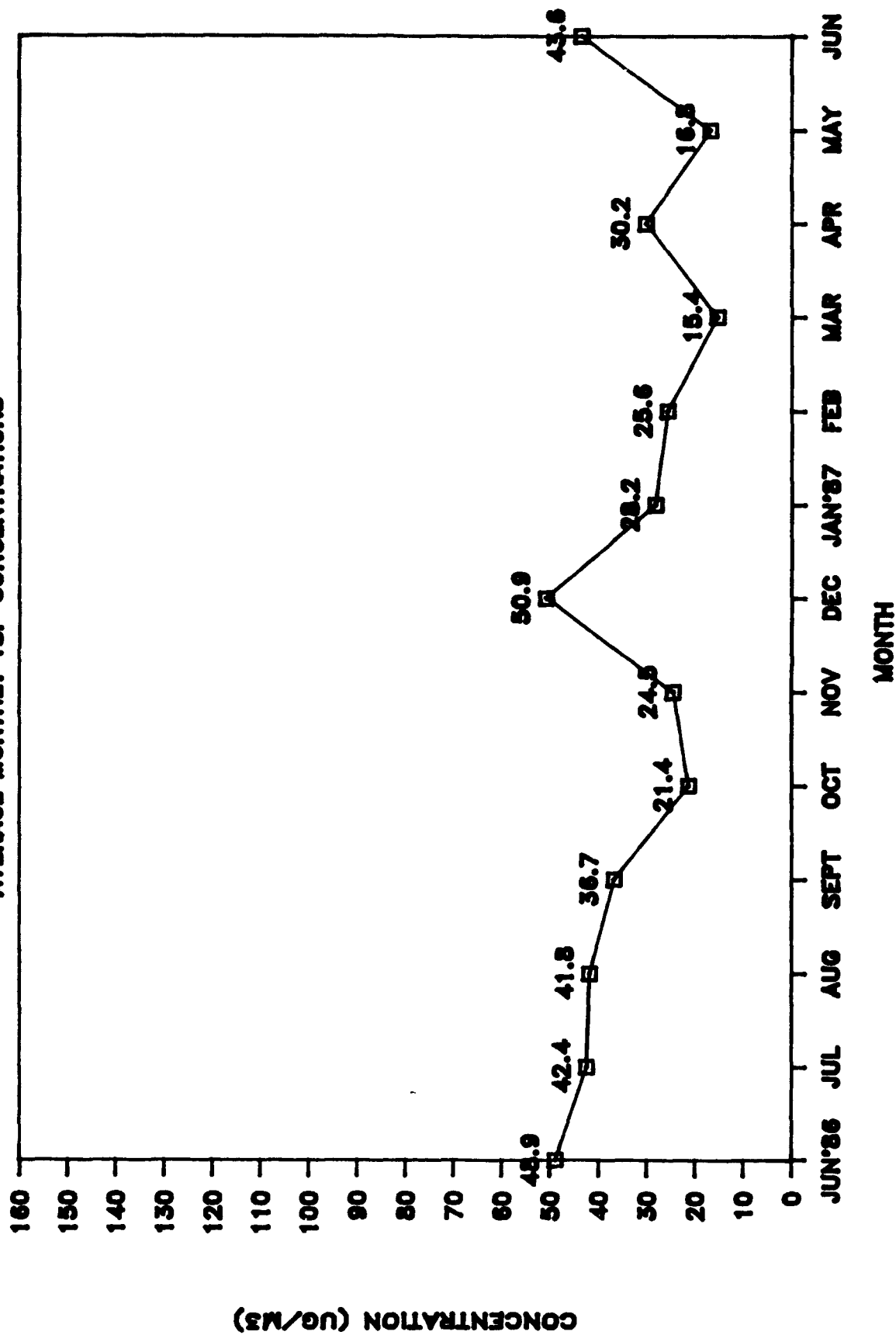
# STATION AQ2

## AVERAGE MONTHLY TSP CONCENTRATIONS



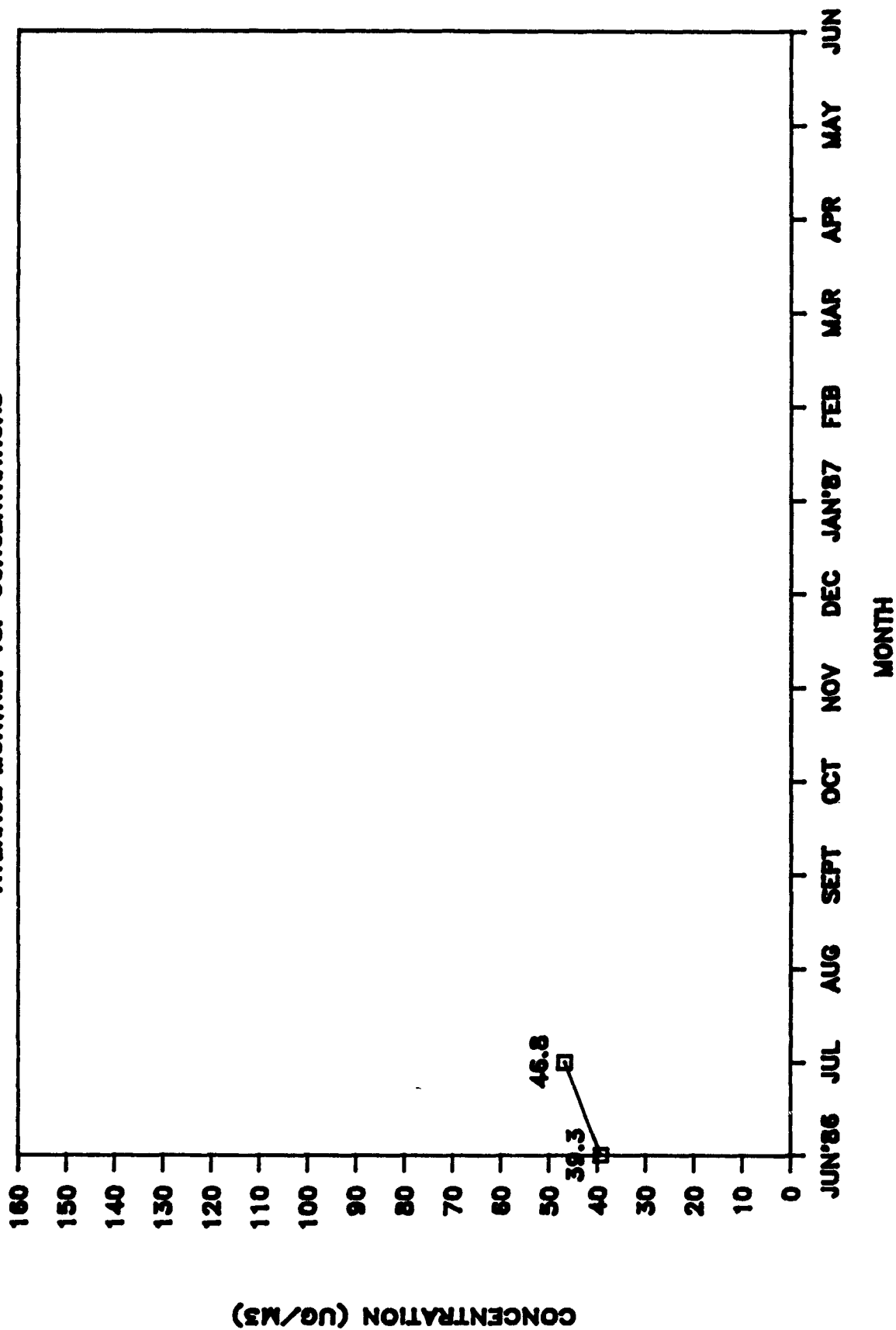
# STATION AQ3

## AVERAGE MONTHLY TSP CONCENTRATIONS



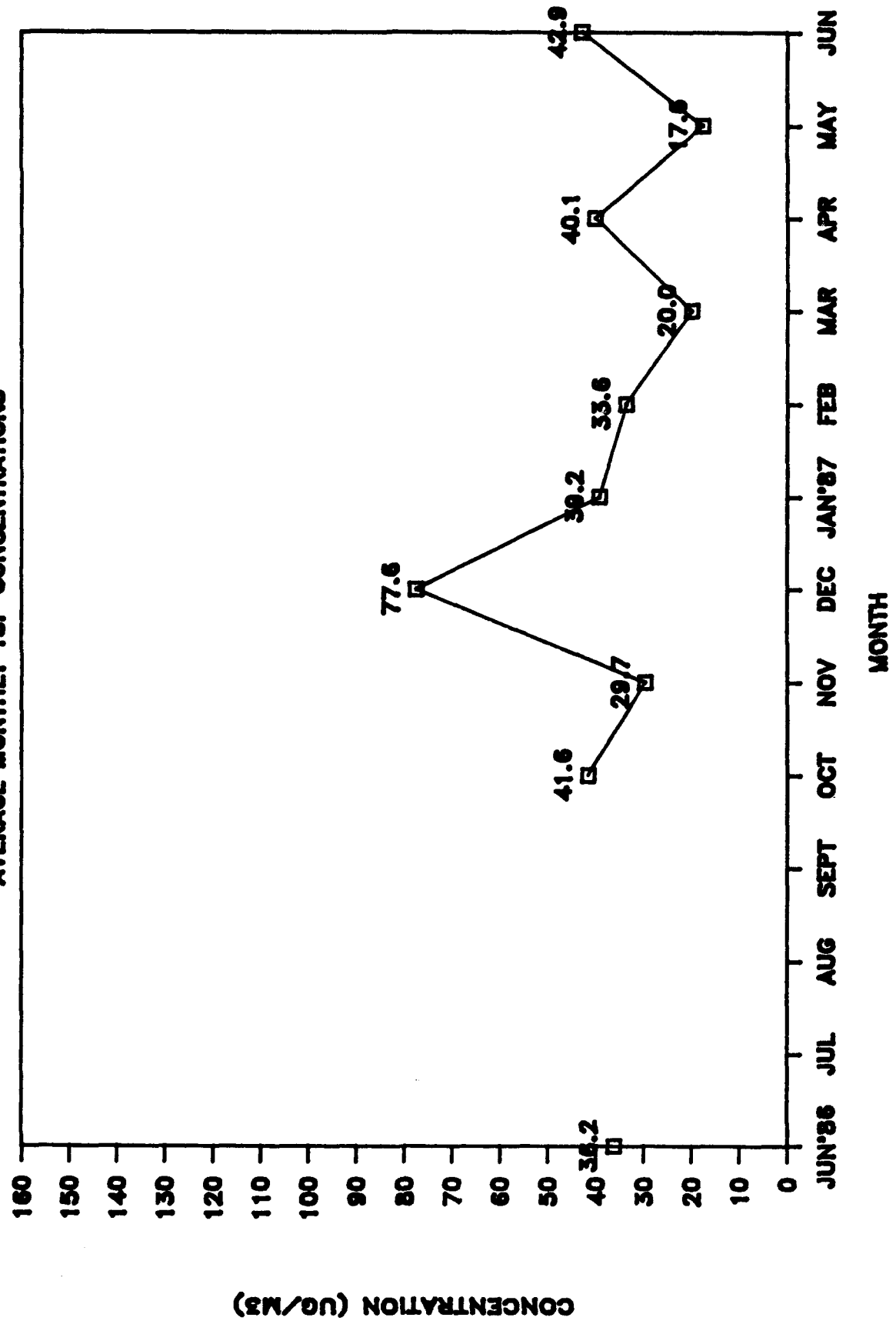
# STATION AQ4

## AVERAGE MONTHLY TSP CONCENTRATIONS



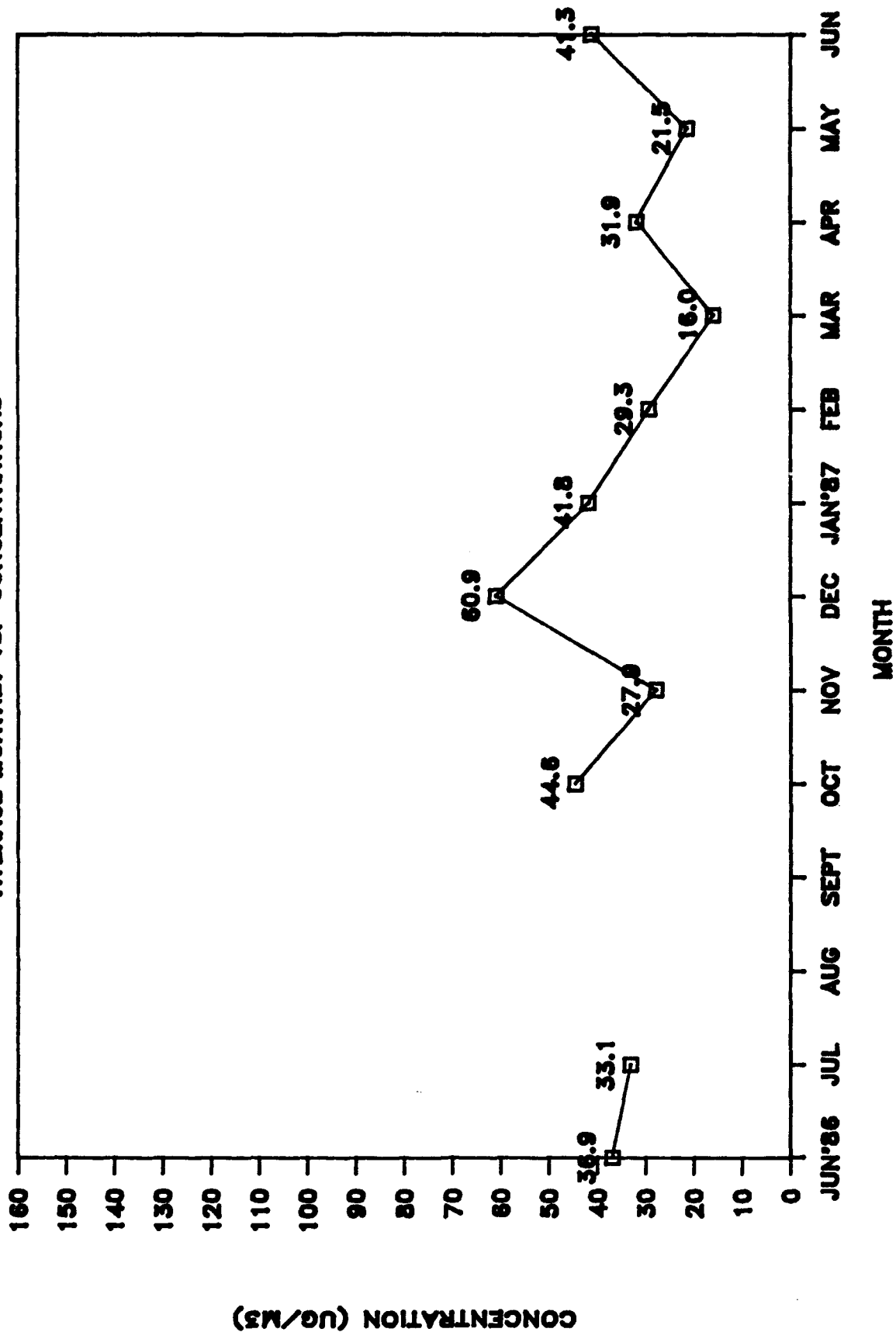
# STATION AQ5

## AVERAGE MONTHLY TSP CONCENTRATIONS



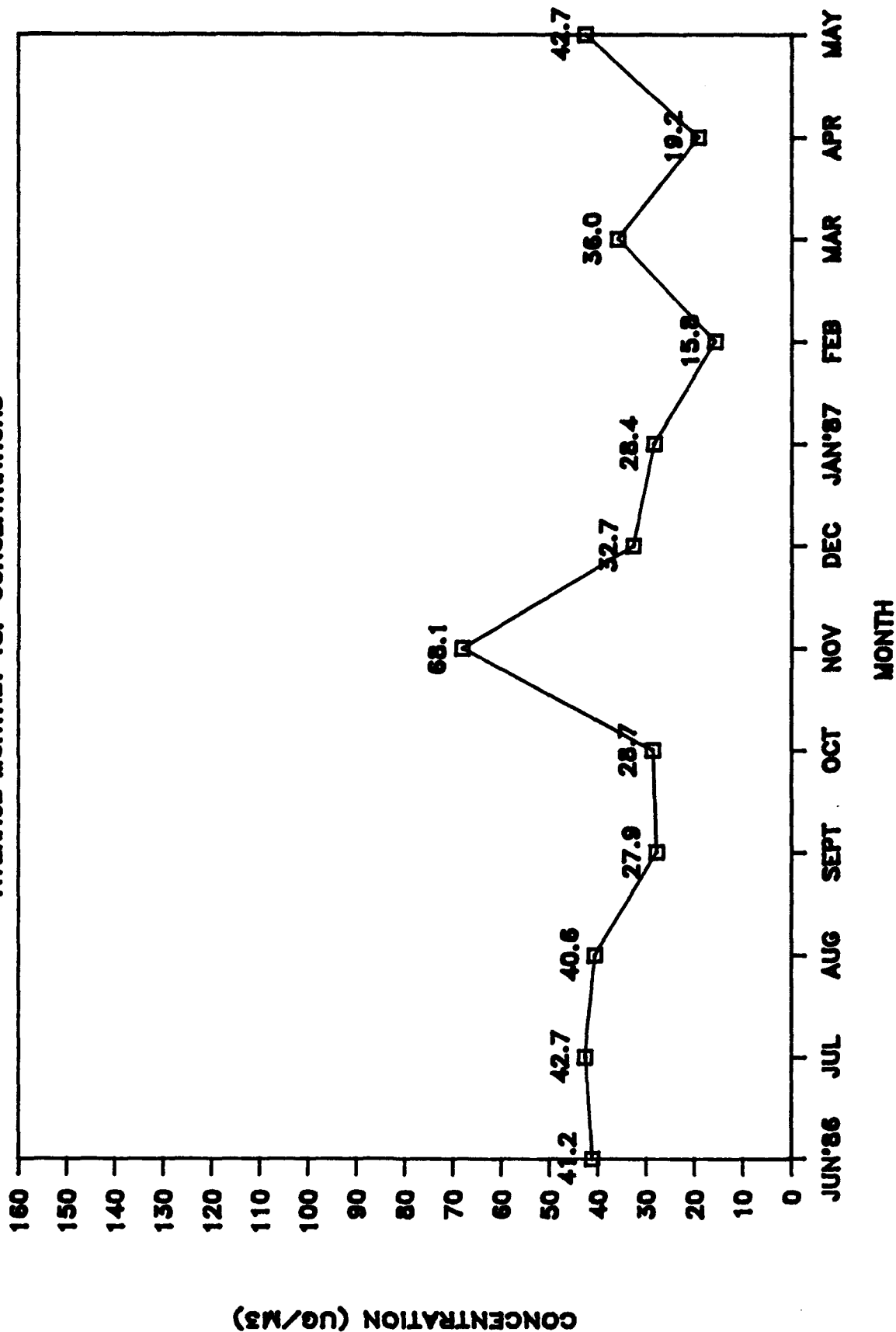
# STATION AQ6

## AVERAGE MONTHLY TSP CONCENTRATIONS



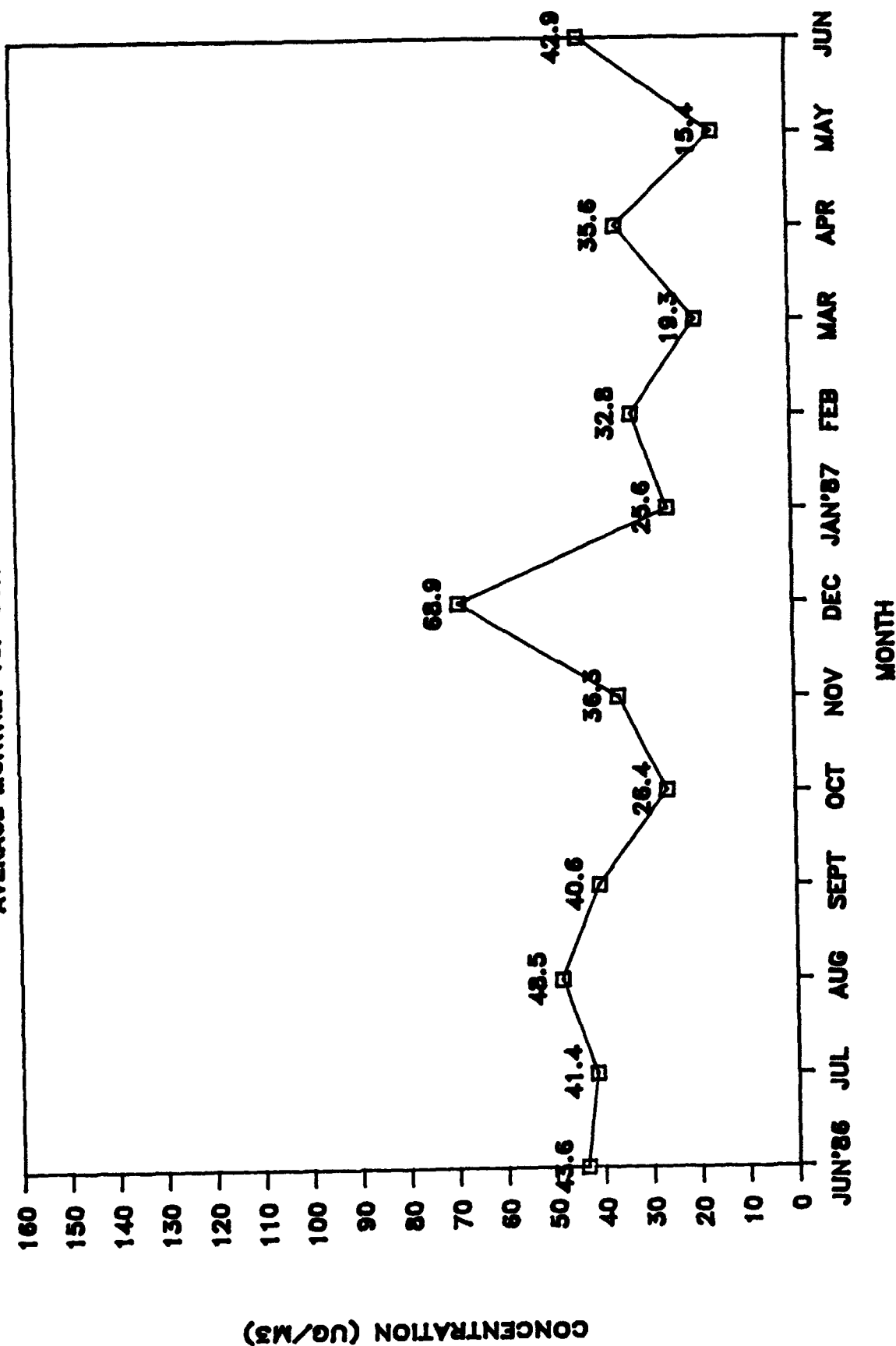
# STATION AQ7

AVERAGE MONTHLY TSP CONCENTRATIONS



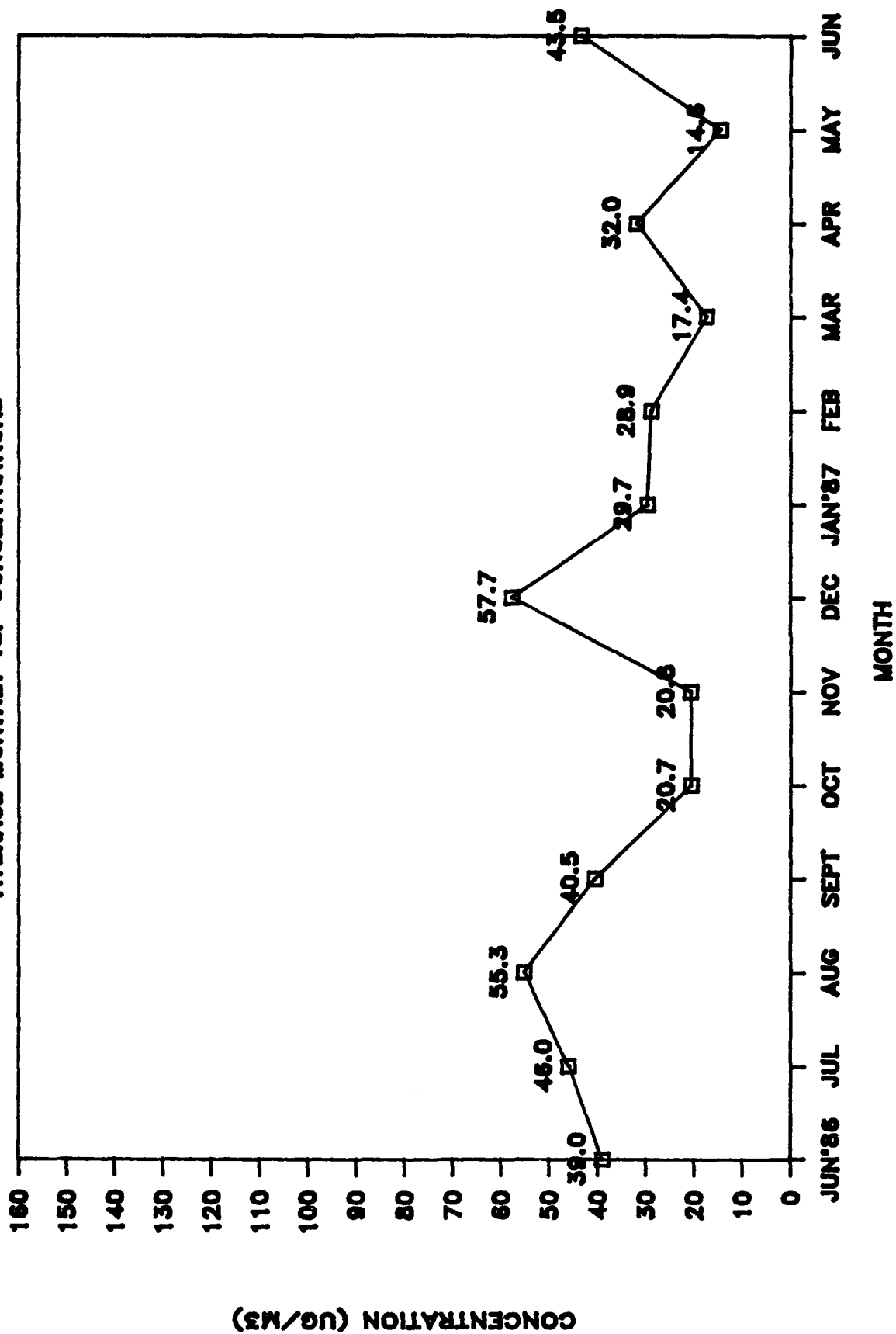
# STATION AQ8

AVERAGE MONTHLY TSP CONCENTRATIONS



# STATION AQ9

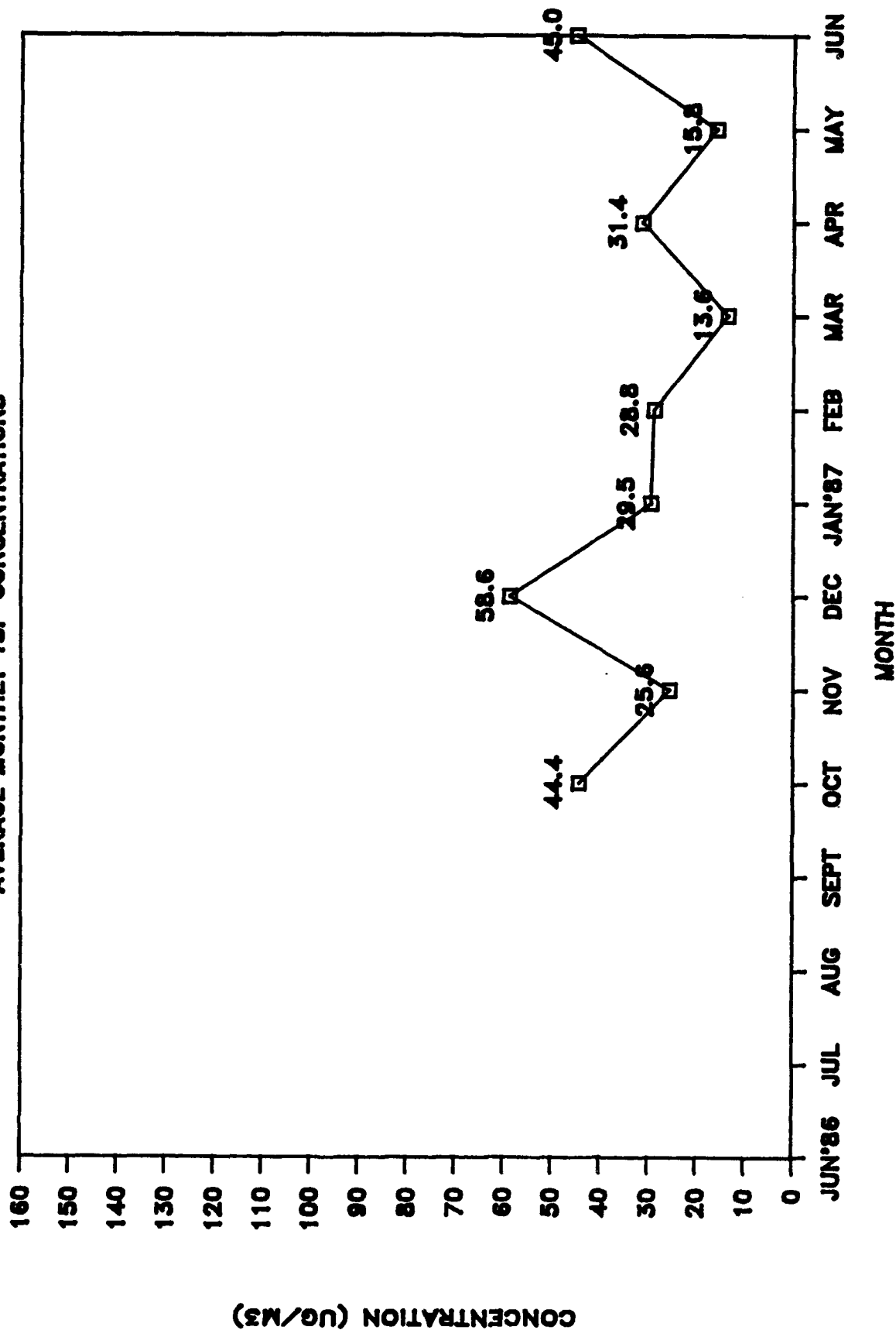
## AVERAGE MONTHLY TSP CONCENTRATIONS



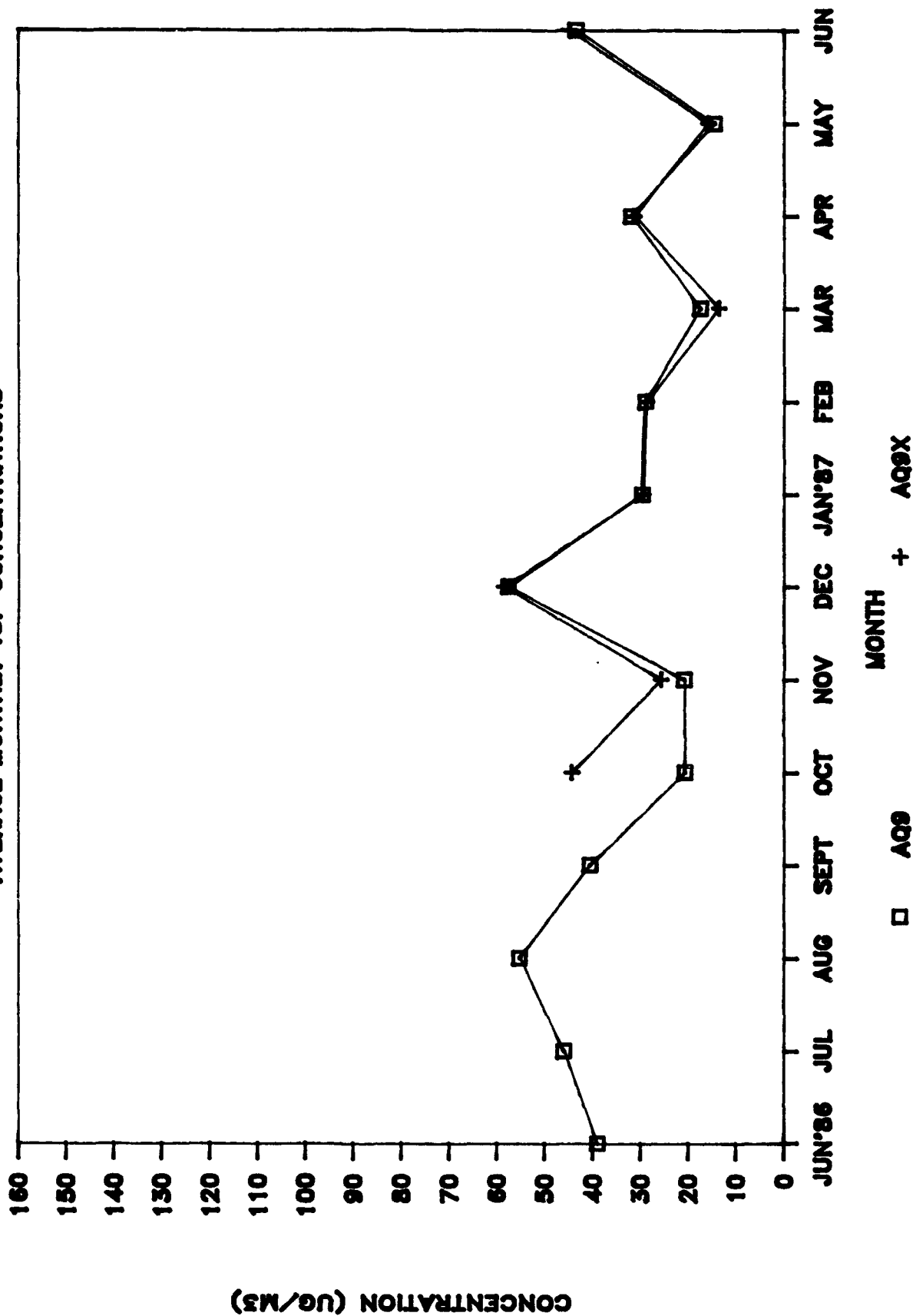


# STATION AQ9X

AVERAGE MONTHLY TSP CONCENTRATIONS

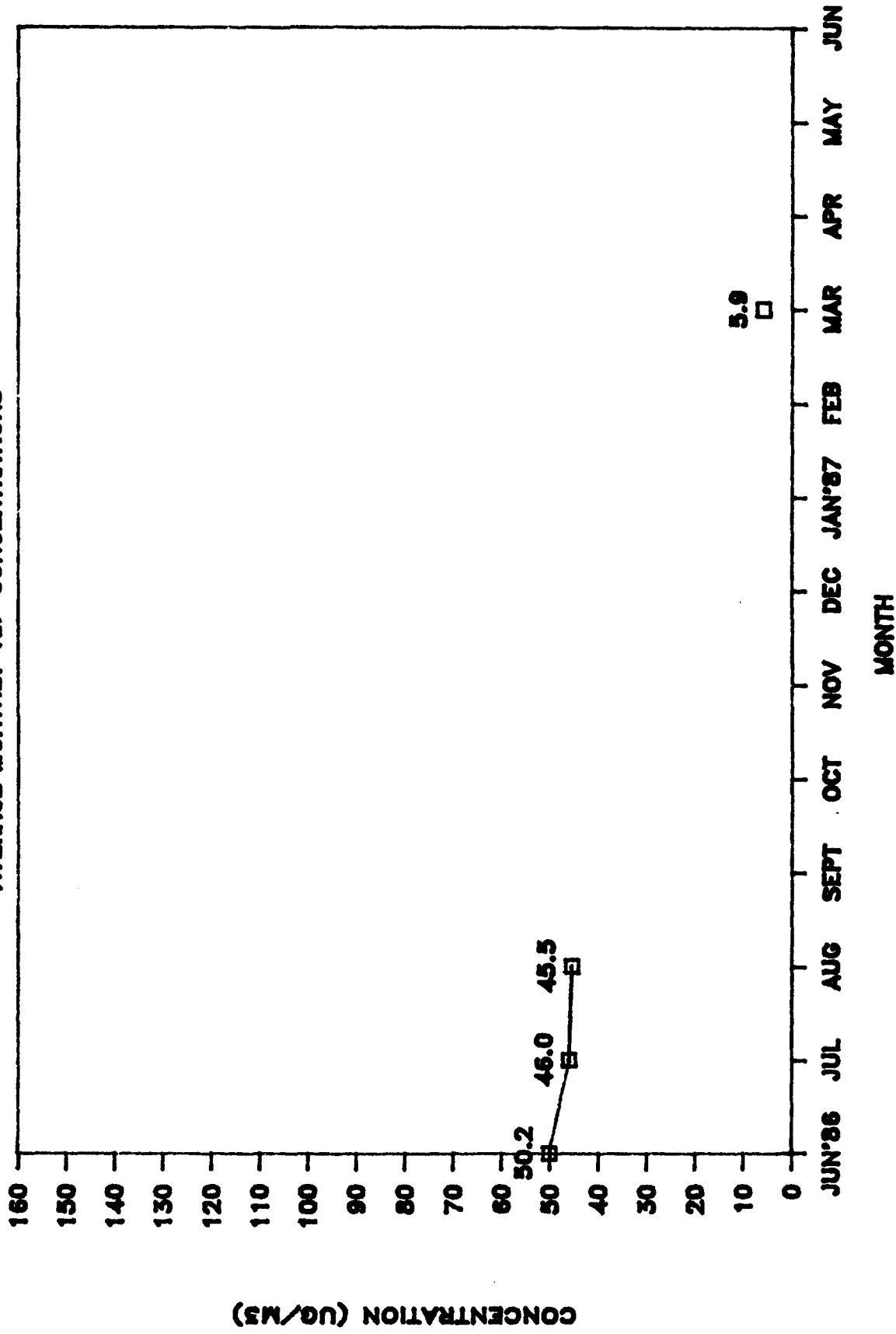


# STATION AQ9 & AQ9X AVERAGE MONTHLY TSP CONCENTRATIONS



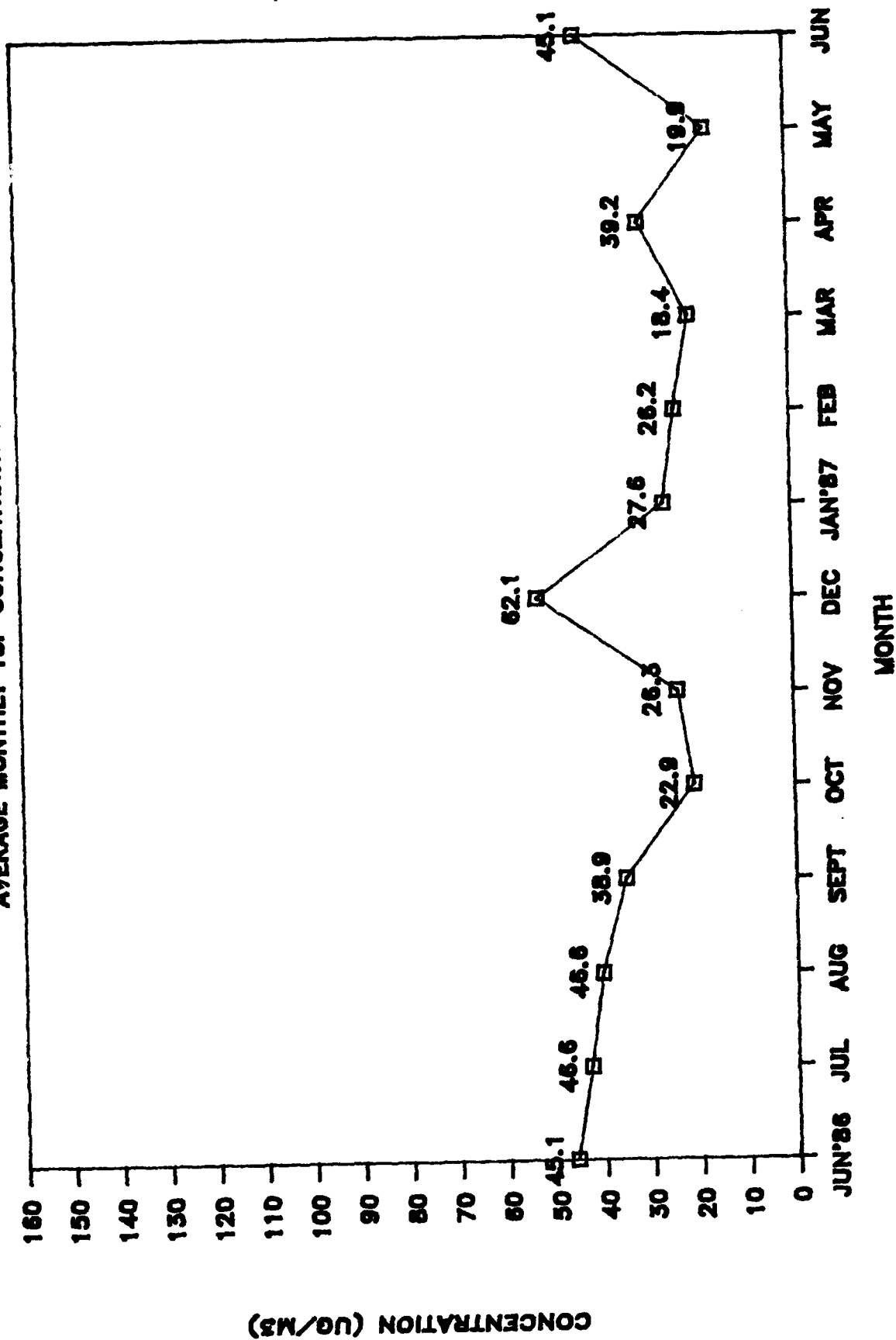
# STATION AQ10

## AVERAGE MONTHLY TSP CONCENTRATIONS

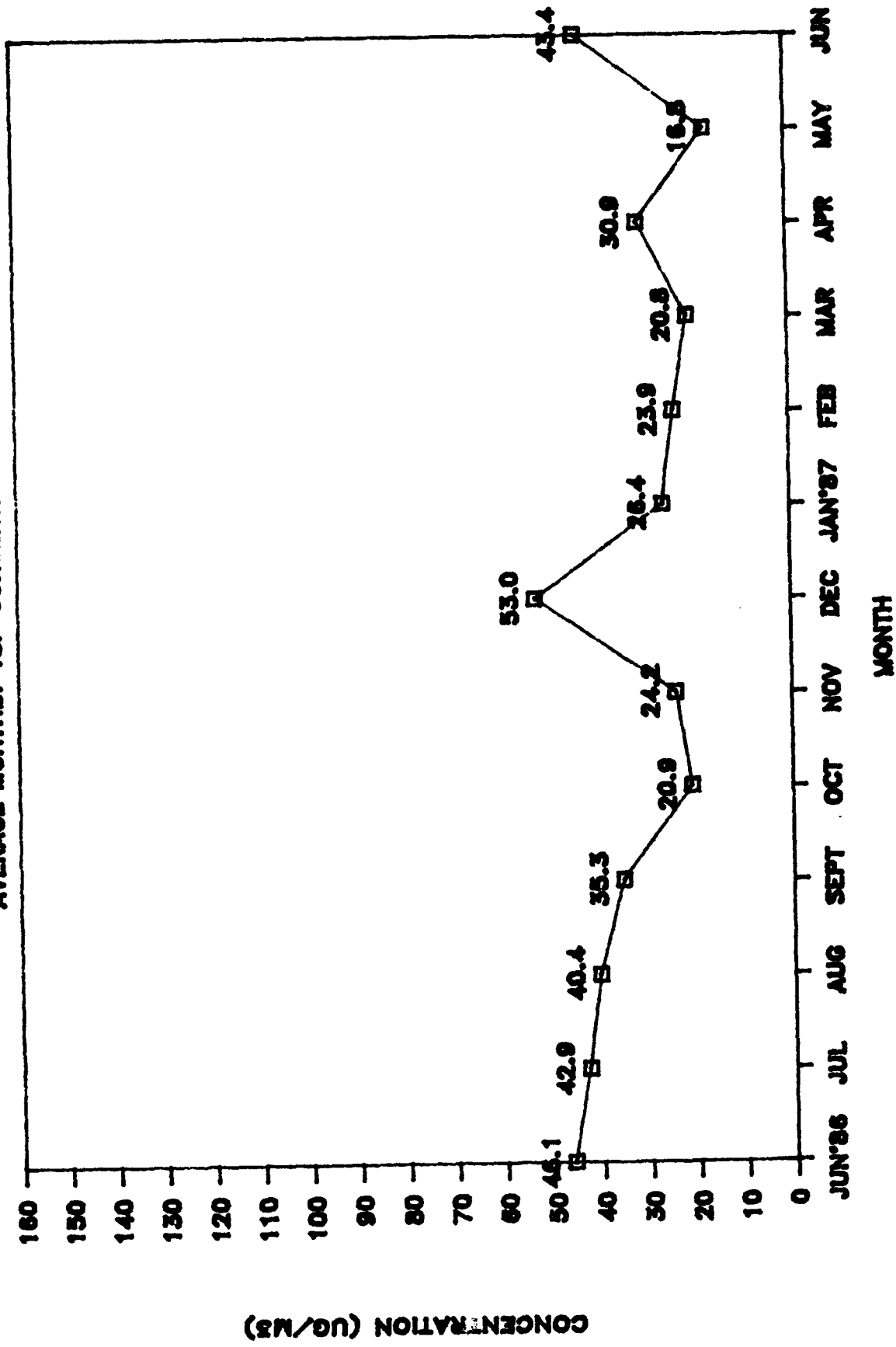


# STATION AQ11

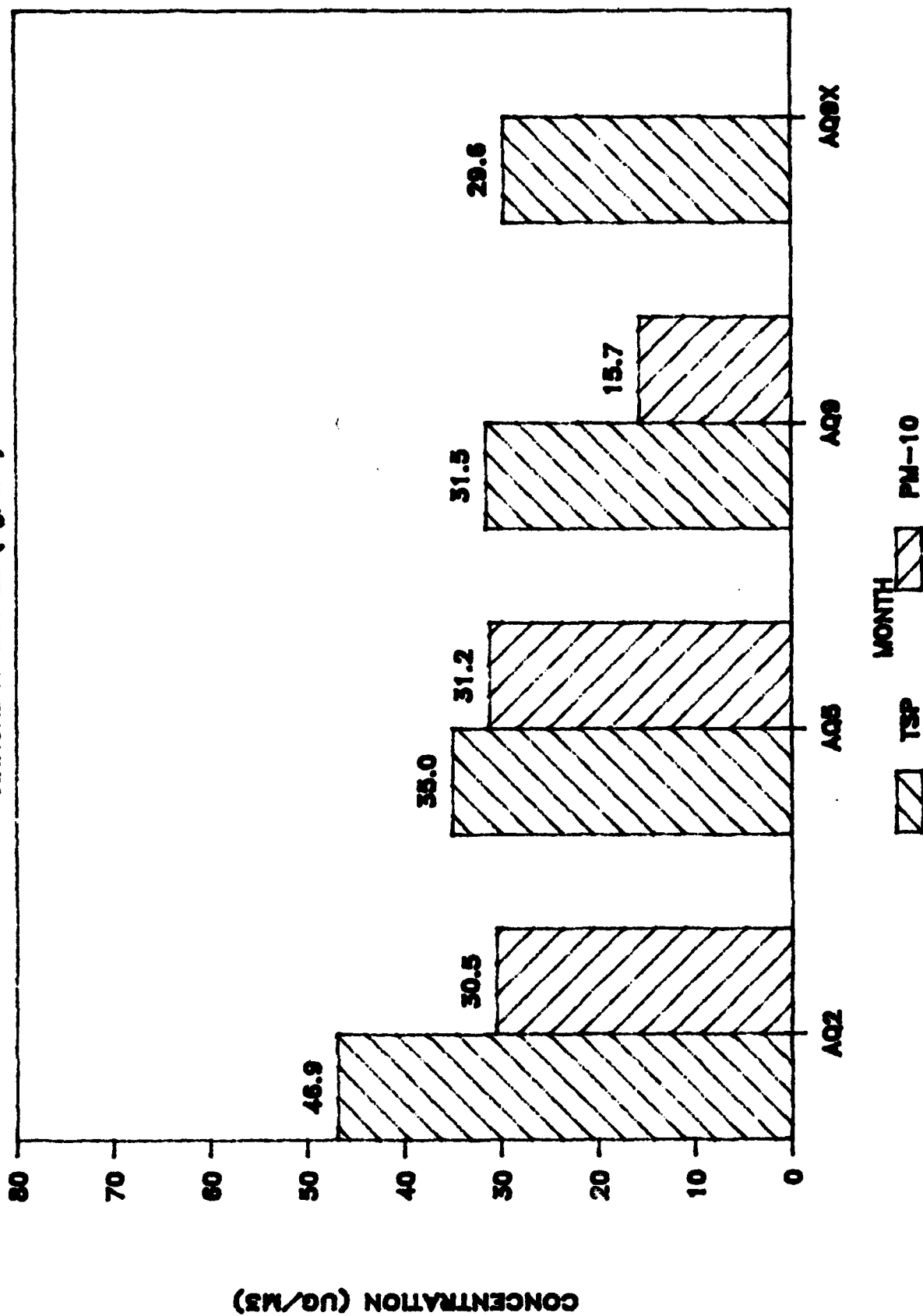
## AVERAGE MONTHLY TSP CONCENTRATIONS



**STATION AQ12**  
**AVERAGE MONTHLY TSP CONCENTRATIONS**

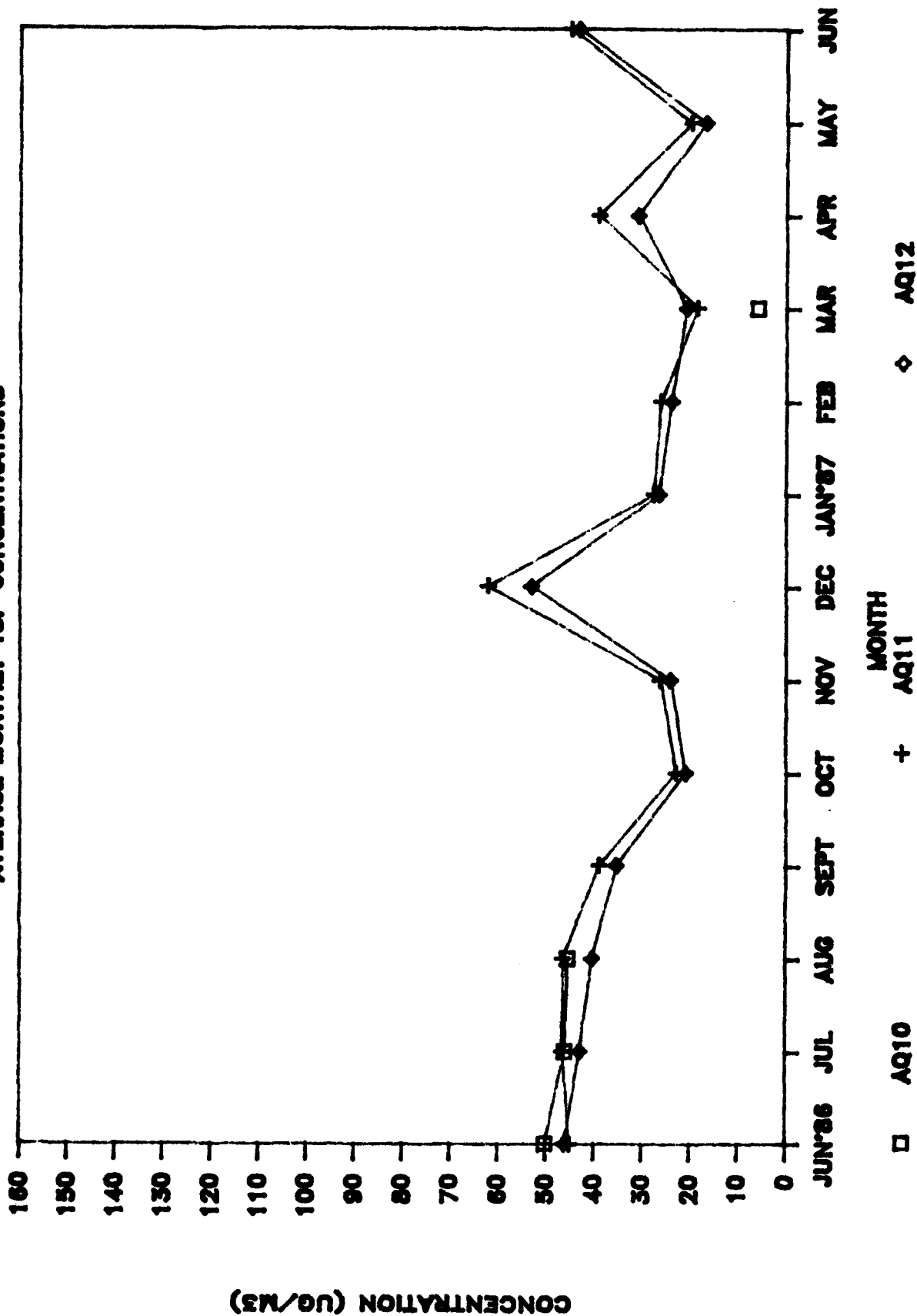


# TSP VS PM-10 ANNUAL AVERAGES (ug/m3)



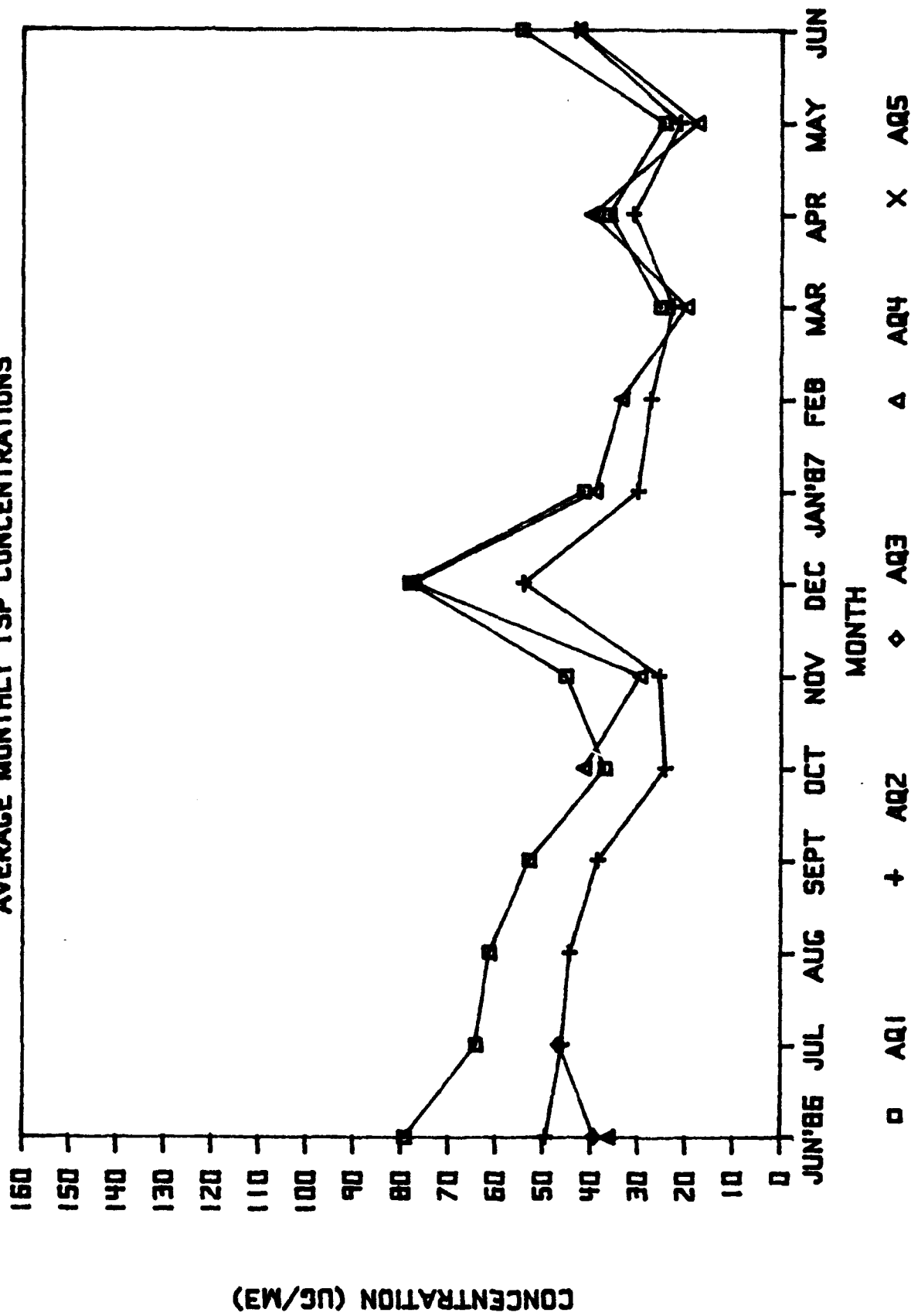
# NORTERN INTERIOR STATIONS

## AVERAGE MONTHLY TSP CONCENTRATIONS



# BOUNDARY STATIONS

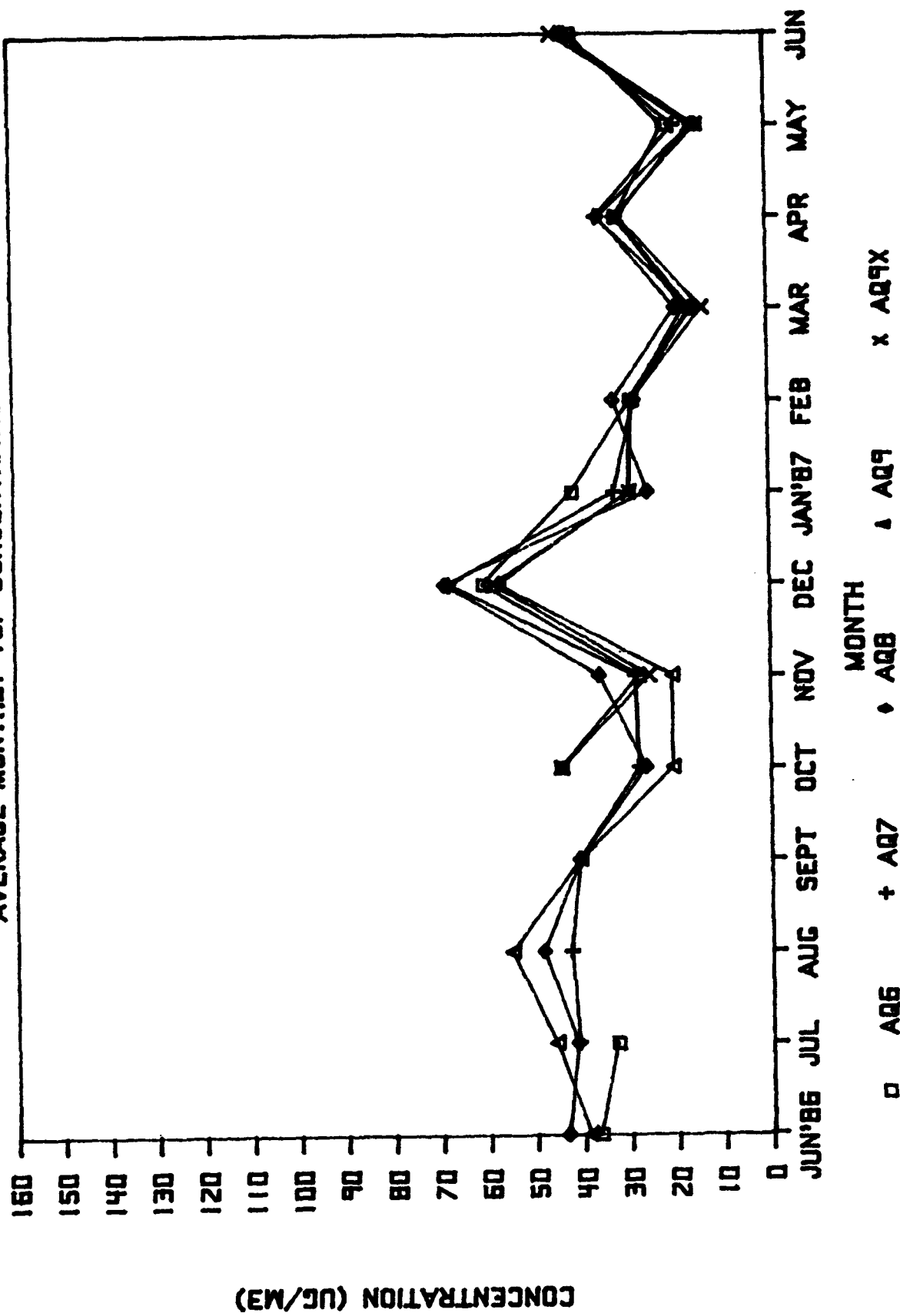
AVERAGE MONTHLY TSP CONCENTRATIONS





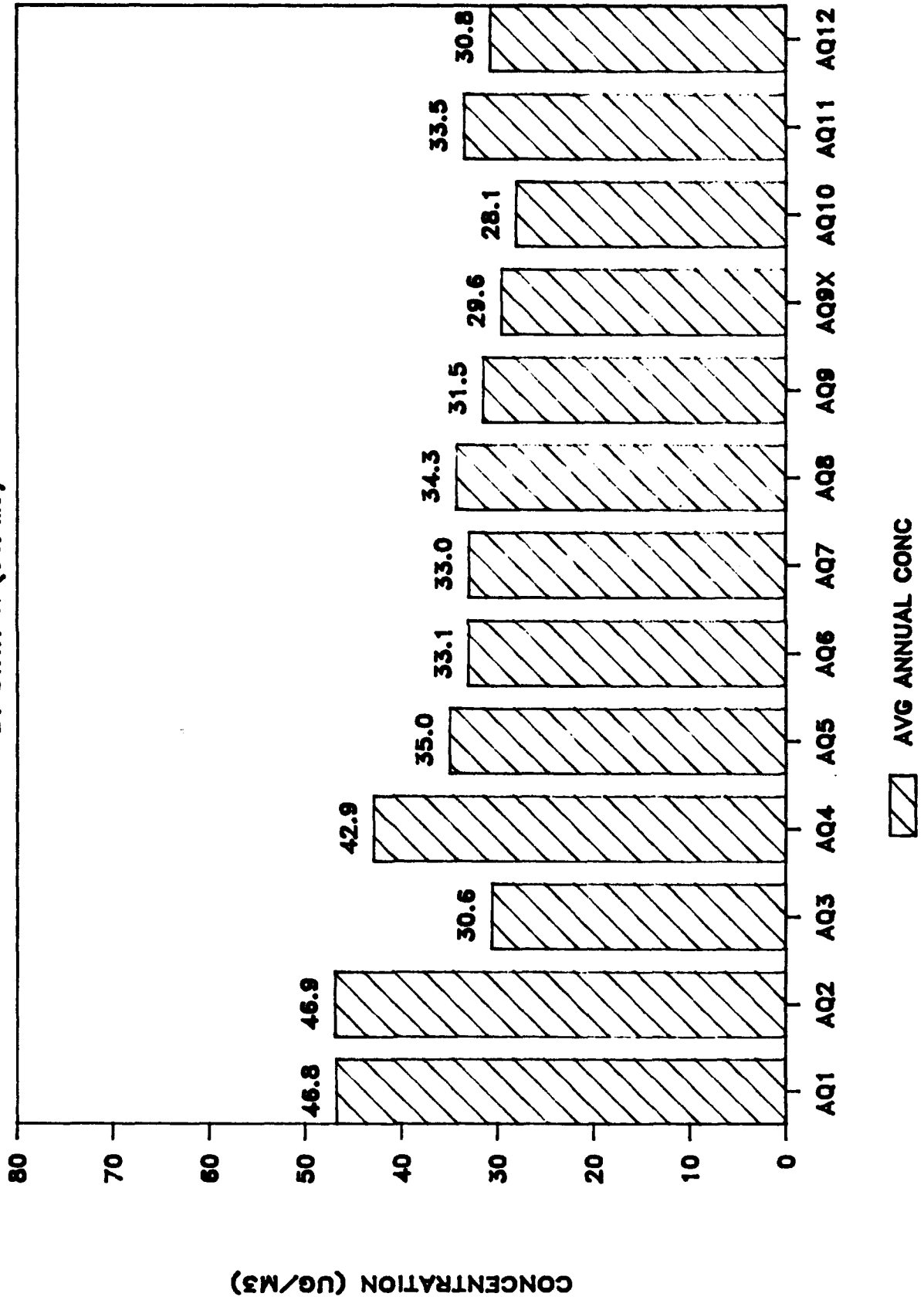
# SOUTHERN INTERIOR STATIONS

AVERAGE MONTHLY TSP CONCENTRATIONS



# AVERAGE ANNUAL TSP CONCENTRATION

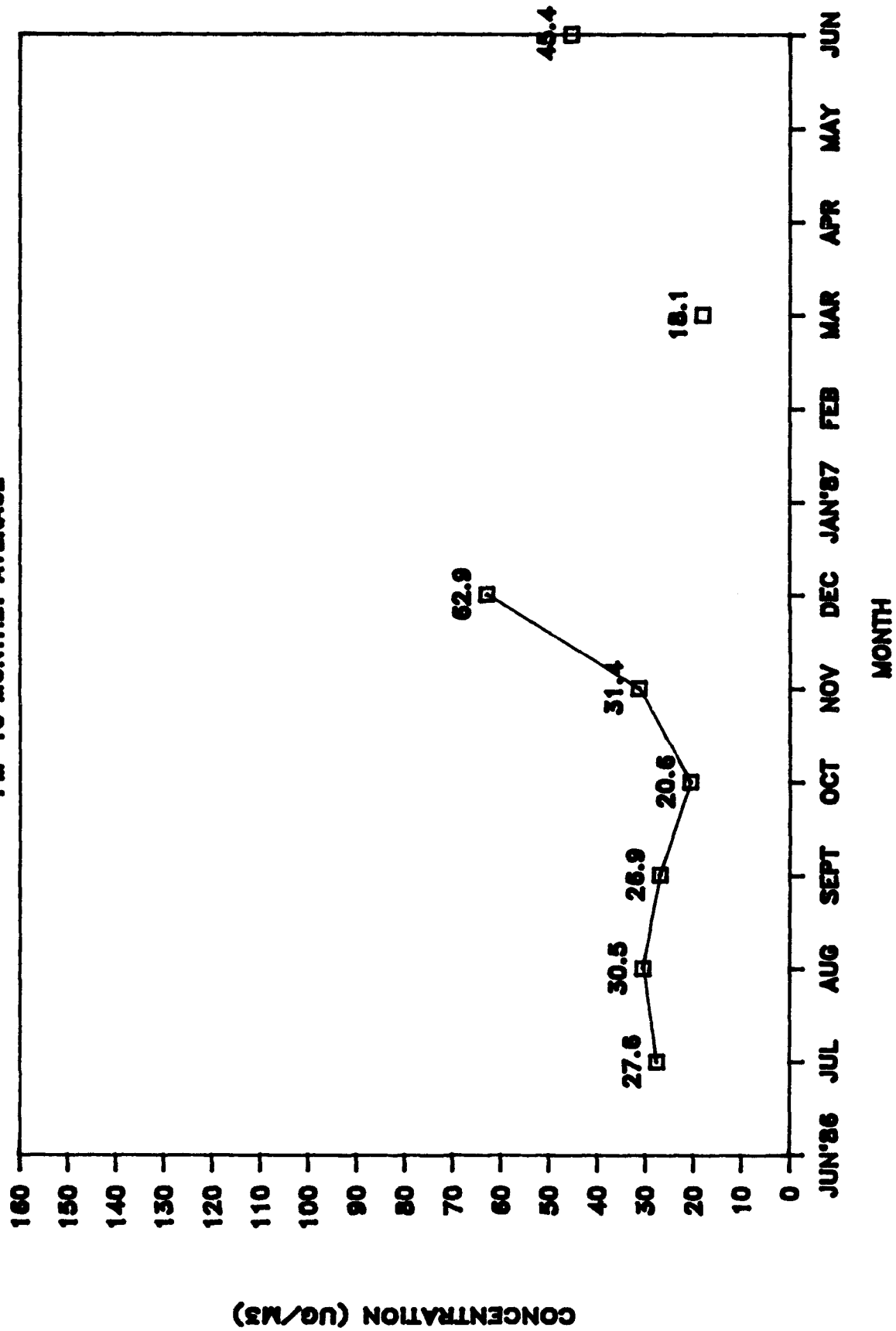
BY STATION (UG/M3)



**APPENDIX C.2**  
**PM-10 SUMMARY**

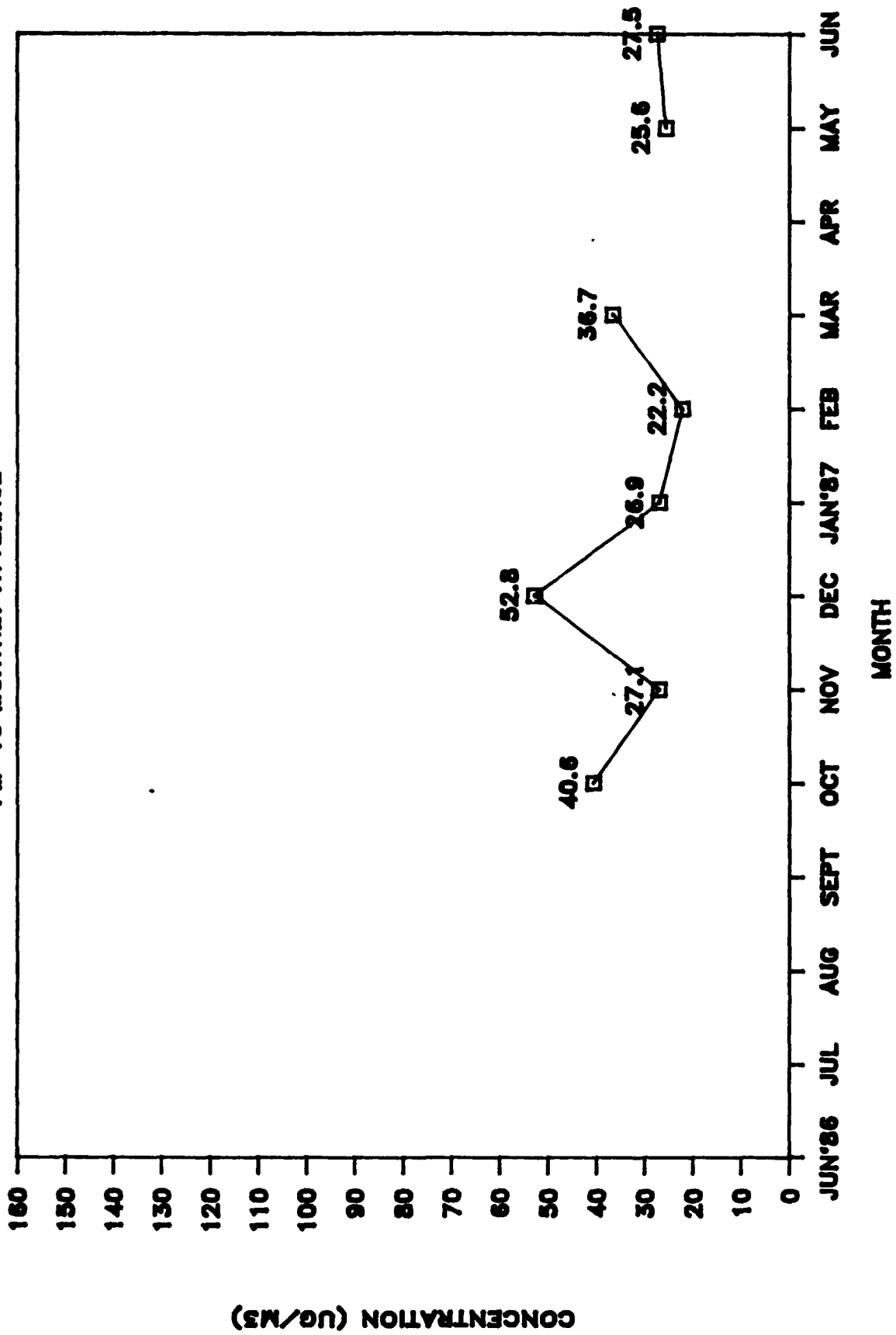
# AQ 2

PM-10 MONTHLY AVERAGE



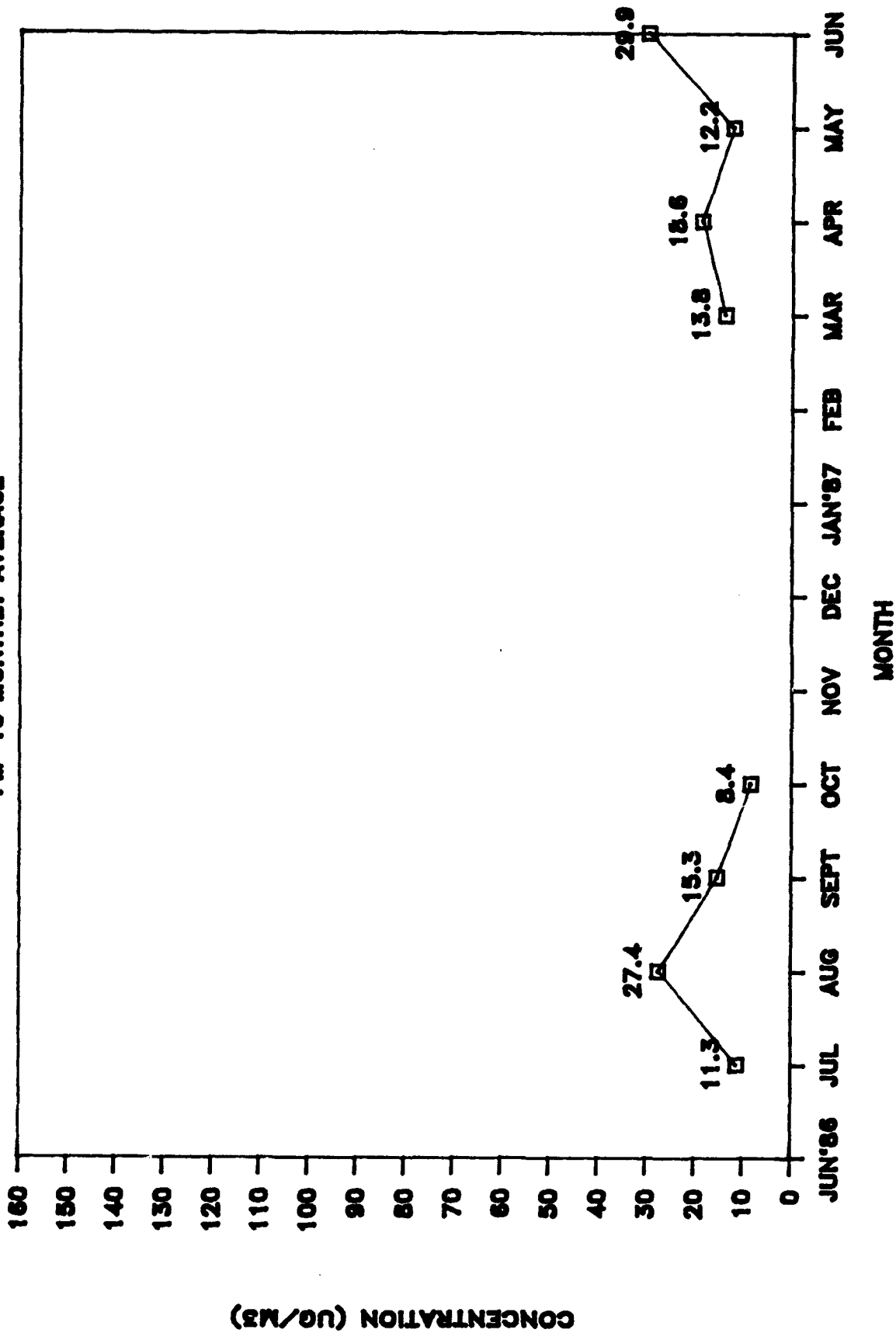
# AQ 5

PM-10 MONTHLY AVERAGE



# AQ 9

PM-10 MONTHLY AVERAGE



**APPENDIX D**  
**METEOROLOGICAL DATA**

**APPENDIX D.1**  
**RMA METEOROLOGICAL DATA**



RMA METEOROLOGICAL DATA  
FROM STATION M1  
07/17 - 10/08, 1987

DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
07/17/87	1315	6.93	0.25	13.39	71.80	0.35	23.15
07/17/87	1330	7.07	2.72	18.10	72.80	0.35	23.36
07/17/87	1345	6.31	20.26	15.78	73.90	0.35	23.25
07/17/87	1400	4.94	7.23	20.49	74.10	0.35	22.51
07/17/87	1415	6.15	15.42	21.64	74.70	0.35	22.18
07/17/87	1430	5.04	353.60	18.15	77.00	0.35	23.36
07/17/87	1445	6.13	347.90	18.97	76.20	0.35	22.99
07/17/87	1500	4.08	35.89	10.37	76.60	0.35	23.82
07/17/87	1515	3.40	347.50	24.77	76.80	0.35	24.56
07/17/87	1530	3.88	99.10	33.45	76.80	0.35	24.55
07/17/87	1545	2.01	59.82	31.89	77.40	0.35	24.54
07/17/87	1600	2.14	320.40	78.50	78.50	0.35	24.25
07/17/87	1615	2.57	314.40	59.00	79.10	0.35	22.29
07/17/87	1630	3.96	215.90	54.68	80.00	0.35	22.48
07/17/87	1645	3.17	186.90	53.10	81.00	0.35	23.03
07/17/87	1700	6.17	184.50	17.40	80.70	0.35	22.90
07/17/87	1715	5.48	194.50	10.37	79.80	0.35	24.21
07/17/87	1730	4.52	198.10	13.85	80.20	0.35	24.53
07/17/87	1745	4.98	207.00	36.25	81.00	0.35	24.53
07/17/87	1800	3.61	287.40	30.71	82.90	0.35	24.53
07/17/87	1815	5.24	244.50	32.68	83.70	0.35	24.52
07/17/87	1830	7.36	252.40	9.14	81.90	0.35	24.52
07/17/87	1845	7.71	240.20	9.55	81.80	0.35	24.53
07/17/87	1900	9.82	217.40	5.60	81.40	0.35	24.53
07/17/87	1915	10.19	241.20	5.94	81.40	0.35	24.53
07/17/87	1930	16.09	277.10	4.03	80.50	0.35	24.53
07/17/87	1945	25.91	252.70	4.37	77.60	0.35	24.35
07/17/87	2000	29.14	245.70	4.44	74.40	0.35	24.57
07/17/87	2015	29.28	250.70	6.36	73.10	0.35	24.57
07/17/87	2030	28.67	253.10	5.20	71.60	0.35	24.58
07/17/87	2045	23.36	249.60	4.45	70.90	0.35	24.58
07/17/87	2100	18.84	253.40	5.61	70.60	0.35	24.46
07/17/87	2115	14.72	260.50	4.45	70.80	0.35	23.83
07/17/87	2130	8.39	266.80	4.04	70.90	0.35	23.46
07/17/87	2145	3.15	291.20	28.68	71.00	0.35	23.44
07/17/87	2200	7.92	65.55	6.78	70.10	0.35	23.40
07/17/87	2215	4.57	80.00	13.83	69.99	0.35	23.49
07/17/87	2230	4.49	114.50	17.73	69.36	0.35	23.87
07/17/87	2245	3.83	145.60	8.70	69.75	0.35	24.57
07/17/87	2300	7.12	162.10	3.15	69.21	0.35	24.57
07/17/87	2315	7.19	158.80	2.40	68.86	0.35	24.55
07/17/87	2330	6.99	173.90	2.74	69.59	0.35	24.53
07/17/87	2345	7.04	188.10	3.56	68.83	0.35	24.53
07/18/87	0	7.81	200.80	2.40	68.02	0.35	24.53
07/18/87	15	6.52	195.00	8.63	68.21	0.35	24.54
07/18/87	30	5.03	213.40	3.98	68.79	0.35	24.54

RMA METEOROLOGICAL DATA  
FROM STATION M1  
07/17 - 10/08, 1987

DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
07/18/87	45	6.80	219.40	4.73	69.15	0.35	24.53
07/18/87	100	4.65	212.50	2.74	68.58	0.35	24.53
07/18/87	115	7.35	218.80	2.33	67.61	0.35	24.24
07/18/87	130	7.56	226.10	2.40	69.00	0.35	23.43
07/18/87	145	7.98	216.00	2.74	69.28	0.35	23.27
07/18/87	200	7.30	212.60	8.71	68.05	0.35	23.28
07/18/87	215	5.36	251.20	4.80	68.32	0.35	23.28
07/18/87	230	5.78	291.10	7.88	70.60	0.35	23.39
07/18/87	245	4.66	203.30	8.30	68.72	0.35	24.21
07/18/87	300	8.37	156.30	1.17	65.86	0.35	24.63
07/18/87	315	8.86	166.50	3.15	66.82	0.35	24.63
07/18/87	330	6.39	173.70	2.74	65.47	0.35	24.64
07/18/87	345	5.87	116.40	21.95	61.19	0.35	24.65
07/18/87	400	7.30	98.00	13.72	56.92	0.35	24.64
07/18/87	415	6.69	109.50	3.91	60.83	0.35	24.66
07/18/87	430	6.86	125.10	17.22	63.97	0.35	24.66
07/18/87	445	5.83	156.80	9.40	63.52	0.35	24.66
07/18/87	500	5.68	132.30	15.30	62.44	0.35	24.66
07/18/87	515	6.05	143.60	7.41	60.83	0.35	24.66
07/18/87	530	10.24	125.30	3.50	60.63	0.35	24.66
07/18/87	545	10.11	125.60	25.81	62.19	0.35	24.67
07/18/87	600	8.89	142.20	6.25	62.88	0.35	24.69
07/18/87	615	6.18	152.00	25.05	59.06	0.35	24.69
07/18/87	630	5.40	146.40	25.81	58.19	0.35	24.69
07/18/87	645	8.27	158.20	2.33	57.31	0.35	24.69
07/18/87	700	4.52	147.80	34.11	54.74	0.35	24.69
07/18/87	715	4.40	157.10	3.57	55.82	0.35	24.69
07/18/87	730	6.23	140.10	16.41	54.94	0.35	24.70
07/18/87	745	6.35	148.60	5.08	55.03	0.35	24.71
07/18/87	800	9.99	159.30	3.85	57.52	0.35	24.71
07/18/87	815	6.86	153.30	3.16	55.90	0.35	24.71
07/18/87	830	5.59	156.10	5.90	55.49	0.35	24.71
07/18/87	845	5.52	188.60	8.58	58.79	0.35	24.71
07/18/87	900	4.58	219.80	29.37	57.86	0.35	24.71
07/18/87	915	1.62	10.55	11.04	59.14	0.35	24.71
07/18/87	930	2.98	258.90	16.94	60.77	0.35	24.61
07/18/87	945	5.00	222.00	11.04	62.27	0.35	24.52
07/18/87	1000	6.94	221.20	4.79	65.40	0.35	24.61
07/18/87	1015	11.42	215.90	5.21	67.72	0.35	24.66
07/18/87	1030	12.65	214.80	5.61	69.59	0.35	24.66
07/18/87	1045	13.71	209.70	4.45	71.10	0.35	24.43
07/18/87	1100	14.89	205.40	4.45	72.30	0.35	24.70
07/18/87	1115	13.92	206.30	5.20	73.70	0.35	24.70
07/18/87	1130	14.94	202.10	5.54	75.20	0.35	23.86
07/18/87	1145	15.36	207.20	7.52	75.60	0.35	23.37
07/18/87	1200	13.88	210.20	8.34	76.40	0.35	24.11

RMA METEOROLOGICAL DATA  
FROM STATION M1  
07/17 - 10/08, 1987

DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
07/18/87	1215	17.78	208.90	7.52	76.90	0.35	23.14
07/18/87	1230	16.60	199.00	5.94	77.60	0.35	22.86
07/18/87	1245	15.03	199.20	11.47	77.80	0.35	23.24
07/18/87	1300	12.32	199.20	8.40	78.30	0.35	23.29
07/18/87	1315	9.80	207.80	13.86	79.40	0.35	23.38
07/18/87	1330	8.17	202.30	26.41	79.90	0.35	23.23
07/18/87	1345	7.50	220.30	40.52	80.70	0.35	23.15
07/18/87	1400	8.94	216.70	12.28	81.00	0.35	22.90
07/18/87	1415	7.38	205.70	15.48	81.60	0.35	22.56
07/18/87	1430	4.84	226.50	34.70	82.50	0.35	24.59
07/18/87	1445	8.47	205.30	8.79	83.00	0.35	24.67
07/18/87	1500	6.23	179.10	24.06	83.50	0.35	24.68
07/18/87	1515	7.62	197.80	14.72	83.70	0.35	24.68
07/18/87	1530	8.66	217.50	28.76	83.50	0.35	24.67
07/18/87	1545	10.04	200.40	12.74	84.60	0.35	24.66
07/18/87	1600	7.50	169.80	19.02	85.40	0.35	24.66
07/18/87	1615	10.75	177.40	17.86	85.80	0.35	24.66
07/18/87	1630	9.08	193.80	58.68	85.80	0.35	24.65
07/18/87	1645	10.32	192.30	15.13	85.80	0.35	24.66
07/18/87	1700	10.01	149.10	23.31	86.70	0.35	24.65
07/18/87	1715	11.23	167.50	15.06	86.90	0.35	24.64
07/18/87	1730	10.61	154.00	15.47	87.30	0.35	24.65
07/18/87	1745	8.03	109.00	47.99	87.20	0.35	24.64
07/18/87	1800	6.46	158.90	28.36	88.50	0.35	24.65
07/18/87	1815	7.69	231.00	9.20	88.20	0.35	24.64
07/18/87	1830	5.35	237.40	43.70	89.10	0.35	24.64
07/18/87	1845	5.41	175.50	20.17	88.90	0.35	24.64
07/18/87	1900	5.83	231.30	18.95	86.90	0.35	24.65
07/18/87	1915	1.95	257.40	55.04	86.60	0.35	24.65
07/18/87	1930	5.42	106.80	18.15	88.20	0.35	24.65
07/18/87	1945	6.89	181.50	16.24	87.10	0.35	24.65
07/18/87	2000	4.53	235.80	18.98	87.20	0.35	24.64
07/18/87	2015	3.60	222.00	21.30	88.60	0.35	24.65
07/18/87	2030	4.72	166.50	28.33	89.90	0.35	24.65
07/18/87	2045	9.96	43.79	7.58	88.30	0.35	24.65
07/18/87	2100	9.82	39.54	8.74	87.30	0.35	24.65
07/18/87	2115	7.38	29.33	5.19	86.90	0.35	24.64
07/18/87	2130	5.58	28.54	4.44	85.70	0.35	24.65
07/18/87	2145	5.56	27.34	13.80	85.20	0.35	24.65
07/18/87	2200	9.17	343.90	2.80	83.10	0.35	24.65
07/18/87	2215	8.64	350.10	13.05	80.70	0.35	24.65
07/18/87	2230	6.93	359.30	15.72	78.70	0.35	24.65
07/18/87	2245	8.11	343.70	2.80	76.40	0.35	24.37
07/18/87	2300	6.73	345.50	7.93	74.90	0.35	23.84
07/18/87	2315	8.48	317.30	4.79	72.10	0.35	23.85
07/18/87	2330	10.34	322.30	4.38	72.80	0.35	23.77

RMA METEOROLOGICAL DATA  
FROM STATION M1  
07/17 - 10/08, 1987

DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
07/18/87	2345	10.74	313.40	4.79	73.60	0.35	23.50
07/19/87	0	10.94	318.60	3.22	73.20	0.35	23.28
07/19/87	15	7.94	301.60	11.50	72.30	0.35	23.10
07/19/87	30	6.79	245.30	6.37	71.30	0.35	23.28
07/19/87	45	6.20	233.80	7.19	72.10	0.35	23.59
07/19/87	100	8.90	184.30	2.81	72.10	0.35	23.57
07/19/87	115	7.10	189.00	5.21	73.70	0.35	23.31
07/19/87	130	6.79	220.60	3.97	73.30	0.35	23.01
07/19/87	145	8.68	203.90	1.99	71.10	0.35	22.92
07/19/87	200	8.71	206.40	1.65	71.50	0.35	23.02
07/19/87	215	8.70	201.40	3.56	69.93	0.35	23.14
07/19/87	230	7.04	201.20	1.99	69.43	0.35	23.45
07/19/87	245	7.91	200.00	1.58	68.96	0.35	23.40
07/19/87	300	5.10	192.70	30.99	69.34	0.35	23.43
07/19/87	315	5.45	106.50	8.64	68.66	0.35	24.67
07/19/87	330	6.00	152.30	4.73	70.70	0.35	24.76
07/19/87	345	7.74	173.80	3.91	70.20	0.35	24.76
07/19/87	400	7.90	194.30	1.99	68.47	0.35	24.76
07/19/87	415	4.98	205.10	1.99	67.34	0.35	24.76
07/19/87	430	4.49	114.10	2.74	65.26	0.35	24.76
07/19/87	445	6.14	123.10	8.23	64.41	0.35	24.76
07/19/87	500	8.23	158.40	3.57	68.24	0.35	24.76
07/19/87	515	8.74	171.30	2.68	69.16	0.35	24.76
07/19/87	530	7.15	156.50	2.33	65.27	0.35	24.78
07/19/87	545	7.62	155.30	2.33	62.91	0.35	24.78
07/19/87	600	10.92	152.40	2.33	63.75	0.35	24.78
07/19/87	615	11.00	165.40	2.40	66.72	0.35	24.78
07/19/87	630	10.47	172.30	1.92	66.66	0.35	24.78
07/19/87	645	10.08	164.20	4.32	64.99	0.35	24.79
07/19/87	700	9.37	153.60	1.51	60.59	0.35	24.79
07/19/87	715	10.91	153.90	1.92	58.77	0.35	24.80
07/19/87	730	11.81	162.70	1.92	61.35	0.35	24.80
07/19/87	745	13.75	170.50	1.17	62.75	0.35	24.80
07/19/87	800	10.34	163.80	23.19	63.14	0.35	24.81
07/19/87	815	3.78	147.30	11.73	57.52	0.35	24.81
07/19/87	830	2.52	132.80	28.61	57.99	0.35	24.82
07/19/87	845	3.58	131.00	5.49	58.58	0.35	24.82
07/19/87	900	2.01	111.70	16.87	60.37	0.35	24.83
07/19/87	915	0.95	318.50	22.42	63.40	0.35	24.66
07/19/87	930	1.61	23.13	14.19	65.86	0.35	23.87
07/19/87	945	3.35	328.40	8.29	66.34	0.35	23.97
07/19/87	1000	3.37	339.90	5.55	67.40	0.35	23.96
07/19/87	1015	2.81	297.80	17.72	69.96	0.35	24.58
07/19/87	1030	3.06	271.70	19.29	71.20	0.35	24.80
07/19/87	1045	3.27	252.70	11.49	72.10	0.35	24.69
07/19/87	1100	2.79	200.30	56.25	73.10	0.35	23.66

RMA METEOROLOGICAL DATA  
FROM STATION M1  
07/17 - 10/08, 1987

DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
07/19/87	1115	3.70	193.40	19.81	74.10	0.35	23.55
07/19/87	1130	3.69	202.20	20.14	75.00	0.35	23.27
07/19/87	1145	3.11	179.90	34.26	76.60	0.35	23.91
07/19/87	1200	2.66	266.10	25.18	78.20	0.35	23.64
07/19/87	1215	3.74	186.40	24.07	78.80	0.35	24.56
07/19/87	1230	2.88	130.30	28.02	80.30	0.35	24.70
07/19/87	1245	3.57	135.70	45.66	81.00	0.35	24.81
07/19/87	1300	5.11	227.70	45.31	81.70	0.35	24.82
07/19/87	1315	6.47	211.50	35.49	81.80	0.35	24.82
07/19/87	1330	8.64	221.80	22.48	82.40	0.35	24.81
07/19/87	1345	6.98	238.90	53.88	82.90	0.35	24.81
07/19/87	1400	4.57	258.90	62.26	83.90	0.35	24.81
07/19/87	1415	4.48	246.90	46.03	85.80	0.35	24.83
07/19/87	1430	8.02	203.20	18.18	84.80	0.35	24.83
07/19/87	1445	6.24	263.00	20.22	85.50	0.35	24.83
07/19/87	1500	6.17	233.10	34.25	85.70	0.35	24.82
07/19/87	1515	5.83	269.30	39.77	86.10	0.35	24.81
07/19/87	1530	8.13	132.70	21.38	87.30	0.35	24.80
07/19/87	1545	8.55	172.20	29.55	87.50	0.35	24.80
07/19/87	1600	5.42	182.20	33.17	88.30	0.35	24.79
07/19/87	1615	8.82	206.40	53.13	88.70	0.35	24.79
07/19/87	1630	11.41	176.70	32.69	88.70	0.35	24.78
07/19/87	1645	10.07	171.50	20.98	89.40	0.35	24.78
07/19/87	1700	9.38	161.90	11.17	90.00	0.35	24.77
07/19/87	1715	8.03	137.10	29.56	89.90	0.35	24.78
07/19/87	1730	8.21	144.00	15.12	90.70	0.35	24.78
07/19/87	1745	11.02	118.60	13.56	90.50	0.35	24.77
07/19/87	1800	9.79	117.00	11.92	90.00	0.35	24.76
07/19/87	1815	14.91	150.10	17.03	90.50	0.35	24.76
07/19/87	1830	12.26	146.80	9.20	89.20	0.35	24.76
07/19/87	1845	11.41	138.40	13.50	90.50	0.35	23.38
07/19/87	1900	14.02	147.70	21.41	90.60	0.35	22.25
07/19/87	1915	16.23	150.50	7.23	90.30	0.35	22.03
07/19/87	1930	15.67	141.30	17.05	90.10	0.35	21.89
07/19/87	1945	14.48	142.60	9.14	89.40	0.35	22.46
07/19/87	2000	14.72	152.40	10.72	88.40	0.35	22.87
07/19/87	2015	15.14	153.40	6.35	87.90	0.35	22.90
07/19/87	2030	14.18	167.70	5.94	87.80	0.35	22.67
07/19/87	2045	9.76	166.00	7.58	87.70	0.35	22.41
07/19/87	2100	11.68	178.70	7.92	89.00	0.35	22.07
07/19/87	2115	14.74	303.40	15.78	86.70	0.35	22.06
07/19/87	2130	6.53	338.90	15.03	84.30	0.35	22.52
07/19/87	2145	10.87	322.90	6.36	82.20	0.35	23.34
07/19/87	2200	8.42	336.40	7.93	80.20	0.35	24.59
07/19/87	2215	8.36	322.00	3.62	79.20	0.35	24.41
07/19/87	2230	9.12	319.90	2.87	78.70	0.35	23.71

RMA METEOROLOGICAL DATA  
FROM STATION M1  
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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
07/19/87	2245	8.47	295.80	2.87	77.80	0.35	23.71
07/19/87	2300	7.99	311.30	2.05	78.10	0.35	23.68
07/19/87	2315	9.62	301.70	2.81	77.60	0.35	23.53
07/19/87	2330	10.07	293.40	2.81	76.80	0.35	23.49
07/19/87	2345	8.52	300.20	2.46	76.80	0.35	23.38
07/20/87	0	7.66	291.00	5.20	76.80	0.35	23.53
07/20/87	15	6.02	254.20	7.12	75.90	0.35	23.56
07/20/87	30	7.19	252.70	11.09	75.90	0.35	23.59
07/20/87	45	8.69	299.50	2.06	76.70	0.35	23.32
07/20/87	100	7.52	304.20	3.97	75.70	0.35	23.20
07/20/87	115	7.05	314.50	3.22	75.80	0.35	24.29
07/20/87	130	5.28	301.80	4.38	75.40	0.35	24.62
07/20/87	145	3.10	177.30	33.78	73.60	0.35	24.55
07/20/87	200	5.09	221.80	5.89	74.10	0.35	23.63
07/20/87	215	5.12	254.30	5.14	74.00	0.35	23.50
07/20/87	230	6.59	248.80	3.56	72.50	0.35	23.36
07/20/87	245	7.55	265.10	5.55	72.40	0.35	23.22
07/20/87	300	7.18	253.70	5.48	71.20	0.35	23.34
07/20/87	315	5.62	212.70	3.15	68.87	0.35	23.52
07/20/87	330	6.65	214.80	3.15	70.90	0.35	24.67
07/20/87	345	7.04	214.50	3.56	70.80	0.35	24.76
07/20/87	400	6.60	208.70	5.49	67.64	0.35	24.75
07/20/87	415	6.26	201.30	2.74	66.45	0.35	24.20
07/20/87	430	7.40	201.30	1.99	65.79	0.35	24.83
07/20/87	445	7.54	200.00	1.99	64.94	0.35	24.84
07/20/87	500	8.74	196.90	2.33	64.64	0.35	24.84
07/20/87	515	9.42	187.20	2.67	63.54	0.35	24.85
07/20/87	530	8.98	194.40	1.92	63.88	0.35	24.85
07/20/87	545	9.29	196.00	1.92	63.81	0.35	24.85
07/20/87	600	9.31	193.70	1.58	63.79	0.35	24.85
07/20/87	615	8.74	191.30	1.17	63.58	0.35	24.86
07/20/87	630	10.12	187.40	2.33	63.11	0.35	24.86
07/20/87	645	9.61	195.90	2.40	62.49	0.35	24.87
07/20/87	700	9.49	194.40	1.51	61.59	0.35	24.87
07/20/87	715	8.41	195.00	1.51	61.19	0.35	24.88
07/20/87	730	8.19	206.60	2.33	60.90	0.35	24.88
07/20/87	745	9.08	205.70	1.92	61.56	0.35	24.88
07/20/87	800	8.21	200.30	3.50	61.22	0.35	24.88
07/20/87	815	8.91	187.30	1.51	60.94	0.35	24.89
07/20/87	830	10.97	183.20	1.58	61.25	0.35	24.90
07/20/87	845	9.06	192.20	3.57	62.40	0.35	24.90
07/20/87	900	9.29	200.20	3.57	63.17	0.35	24.37
07/20/87	915	9.43	210.90	3.56	64.16	0.35	22.90
07/20/87	930	10.69	212.10	3.22	65.98	0.35	23.06
07/20/87	945	10.21	208.80	4.04	67.52	0.35	23.38
07/20/87	1000	10.24	202.60	5.96	69.25	0.35	23.71

RMA METEOROLOGICAL DATA  
FROM STATION M1  
07/17 - 10/08, 1987

DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
07/20/87	1015	9.84	202.50	4.04	70.50	0.35	23.83
07/20/87	1030	9.00	203.60	4.11	72.30	0.35	23.80
07/20/87	1045	9.67	205.10	5.27	73.30	0.35	23.91
07/20/87	1100	9.47	212.50	4.45	74.70	0.35	23.93
07/20/87	1115	9.34	213.30	8.34	75.80	0.35	23.86
07/20/87	1130	8.36	207.40	8.75	77.20	0.35	23.82
07/20/87	1145	7.54	208.90	6.42	79.10	0.35	23.92
07/20/87	1200	6.44	197.40	15.09	80.50	0.35	23.62
07/20/87	1215	5.36	189.30	10.37	81.90	0.35	23.68
07/20/87	1230	4.04	219.00	19.37	83.30	0.35	23.89
07/20/87	1245	4.51	190.30	27.95	84.30	0.35	24.85
07/20/87	1300	5.35	205.50	27.19	85.10	0.35	24.90
07/20/87	1315	3.85	240.80	54.30	86.10	0.35	24.89
07/20/87	1330	6.10	213.40	37.39	86.60	0.35	24.87
07/20/87	1345	6.71	249.60	13.89	86.60	0.35	24.86
07/20/87	1400	6.59	241.30	11.92	87.10	0.35	24.87
07/20/87	1415	6.24	220.10	15.86	87.10	0.35	24.87
07/20/87	1430	8.39	223.60	14.71	87.50	0.35	24.87
07/20/87	1445	10.28	186.00	15.12	87.60	0.35	24.87
07/20/87	1500	9.45	137.90	36.64	87.80	0.35	24.85
07/20/87	1515	9.46	159.00	10.01	88.40	0.35	24.86
07/20/87	1530	8.22	150.30	15.46	89.40	0.35	24.85
07/20/87	1545	10.16	120.70	17.03	89.00	0.35	24.84
07/20/87	1600	8.45	142.20	25.61	89.80	0.35	24.84
07/20/87	1615	8.51	180.70	13.55	90.30	0.35	24.83
07/20/87	1630	10.22	131.10	22.96	89.90	0.35	24.83
07/20/87	1645	5.41	166.90	55.86	90.80	0.35	24.82
07/20/87	1700	9.09	137.50	20.16	90.70	0.35	24.82
07/20/87	1715	7.87	138.30	31.54	91.50	0.35	24.83
07/20/87	1730	9.15	100.50	31.95	91.50	0.35	24.81
07/20/87	1745	8.71	133.80	58.25	91.60	0.35	24.82
07/20/87	1800	6.92	130.00	17.03	93.00	0.35	24.82
07/20/87	1815	9.44	105.60	12.26	91.60	0.35	24.82
07/20/87	1830	9.57	153.80	26.37	91.50	0.35	24.82
07/20/87	1845	6.40	125.40	13.15	92.10	0.35	24.82
07/20/87	1900	8.01	131.50	21.74	92.20	0.35	24.81
07/20/87	1915	8.37	173.80	13.56	92.10	0.35	24.81
07/20/87	1930	10.08	165.30	31.56	92.20	0.35	24.80
07/20/87	1945	14.74	131.60	4.91	91.40	0.35	24.80
07/20/87	2000	13.62	122.70	15.48	91.30	0.35	24.68
07/20/87	2015	12.37	133.10	10.03	91.00	0.35	24.52
07/20/87	2030	12.97	145.70	13.92	91.00	0.35	23.64
07/20/87	2045	13.05	141.20	9.62	90.60	0.35	23.09
07/20/87	2100	13.96	135.70	7.24	90.20	0.35	23.18
07/20/87	2115	14.59	129.60	3.28	89.60	0.35	23.19
07/20/87	2130	11.86	124.70	4.10	88.20	0.35	23.34

RMA METEOROLOGICAL DATA  
FROM STATION M1  
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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
07/20/87	2145	8.58	108.70	3.69	86.50	0.35	23.38
07/20/87	2200	7.92	106.10	2.46	84.80	0.35	23.30
07/20/87	2215	9.30	106.70	1.64	82.70	0.35	23.79
07/20/87	2230	9.52	108.30	2.05	81.60	0.35	24.76
07/20/87	2245	9.93	113.00	2.80	79.90	0.35	24.75
07/20/87	2300	10.01	111.10	2.46	77.70	0.35	23.85
07/20/87	2315	10.38	114.00	2.46	76.70	0.35	23.91
07/20/87	2330	10.87	115.30	2.81	77.20	0.35	23.71
07/20/87	2345	10.49	116.10	3.63	77.50	0.35	23.42
07/21/87	0	10.75	129.60	3.22	76.90	0.35	23.28
07/21/87	15	10.22	147.70	3.22	74.70	0.35	23.22
07/21/87	30	9.75	153.20	2.81	72.20	0.35	23.86
07/21/87	45	10.44	146.70	4.38	71.70	0.35	23.97
07/21/87	100	11.72	117.50	2.40	70.80	0.35	23.74
07/21/87	115	11.93	118.30	2.81	70.10	0.35	23.75
07/21/87	130	12.34	125.10	3.22	70.10	0.35	23.43
07/21/87	145	12.25	128.70	1.64	69.14	0.35	23.56
07/21/87	200	13.00	132.70	7.88	68.47	0.35	23.62
07/21/87	215	8.12	204.80	9.46	67.31	0.35	23.52
07/21/87	230	8.29	182.40	14.18	69.30	0.35	23.50
07/21/87	245	8.91	182.10	2.74	70.50	0.35	23.35
07/21/87	300	10.80	172.60	5.48	69.67	0.35	23.04
07/21/87	315	10.62	197.00	3.98	71.30	0.35	22.83
07/21/87	330	10.60	194.90	7.13	70.70	0.35	22.62
07/21/87	345	8.67	205.60	3.56	70.20	0.35	22.47
07/21/87	400	9.14	218.00	1.99	69.74	0.35	22.35
07/21/87	415	9.05	222.80	1.99	69.75	0.35	22.63
07/21/87	430	8.23	233.20	2.74	67.89	0.35	23.11
07/21/87	445	6.90	224.10	3.91	66.19	0.35	24.42
07/21/87	500	8.37	193.90	1.99	66.75	0.35	23.72
07/21/87	515	7.71	202.70	1.58	67.46	0.35	23.88
07/21/87	530	6.19	212.70	2.74	67.47	0.35	23.16
07/21/87	545	5.72	228.30	2.74	66.93	0.35	24.64
07/21/87	600	5.75	225.60	2.33	64.24	0.35	24.52
07/21/87	615	7.34	212.90	1.99	64.27	0.35	23.38
07/21/87	630	8.75	199.90	1.58	64.45	0.35	24.66
07/21/87	645	10.24	172.20	1.17	63.87	0.35	24.37
07/21/87	700	8.65	168.10	4.32	64.47	0.35	22.45
07/21/87	715	9.17	145.10	2.40	63.51	0.35	22.31
07/21/87	730	10.66	141.30	1.17	63.10	0.35	23.54
07/21/87	745	8.71	140.80	3.91	66.25	0.35	23.08
07/21/87	800	5.71	133.50	7.89	67.69	0.35	22.73
07/21/87	815	5.37	201.50	5.90	64.28	0.35	22.73
07/21/87	830	7.32	238.30	2.33	59.14	0.35	22.65
07/21/87	845	5.80	223.50	3.16	61.16	0.35	24.49
07/21/87	900	4.39	223.90	5.56	62.29	0.35	24.90



RMA METEOROLOGICAL DATA  
FROM STATION M1  
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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
07/21/87	915	5.09	226.00	5.90	64.07	0.35	24.90
07/21/87	930	6.25	225.60	4.80	65.76	0.35	24.90
07/21/87	945	7.19	224.50	7.95	68.30	0.35	24.90
07/21/87	1000	5.11	222.40	9.11	70.50	0.35	24.90
07/21/87	1015	4.41	231.90	9.17	72.60	0.35	24.34
07/21/87	1030	5.20	232.40	6.02	73.90	0.35	23.89
07/21/87	1045	5.34	237.50	10.40	75.10	0.35	23.74
07/21/87	1100	4.55	246.30	38.15	76.70	0.35	23.80
07/21/87	1115	5.20	277.40	9.91	77.00	0.35	24.25
07/21/87	1130	5.08	265.20	19.33	77.90	0.35	24.89
07/21/87	1145	4.59	271.10	11.54	78.60	0.35	24.89
07/21/87	1200	4.07	224.20	12.62	79.30	0.35	24.89
07/21/87	1215	3.59	231.20	20.53	80.50	0.35	24.87
07/21/87	1230	3.56	229.20	46.84	81.10	0.35	24.88
07/21/87	1245	3.63	256.10	56.23	82.10	0.35	24.88
07/21/87	1300	3.10	229.60	14.65	83.70	0.35	24.87
07/21/87	1315	3.96	233.60	73.10	83.90	0.35	24.87
07/21/87	1330	3.58	251.40	55.09	85.30	0.35	24.87
07/21/87	1345	7.00	144.30	15.46	85.50	0.35	24.86
07/21/87	1400	5.59	157.60	14.71	86.00	0.35	24.86
07/21/87	1415	8.16	171.10	12.32	86.60	0.35	24.85
07/21/87	1430	7.49	178.60	11.17	88.10	0.35	24.85
07/21/87	1445	5.64	178.60	61.74	88.80	0.35	24.84
07/21/87	1500	7.27	182.10	20.22	89.50	0.35	24.84
07/21/87	1515	4.21	192.70	34.72	89.70	0.35	24.83
07/21/87	1530	5.41	185.20	23.69	91.10	0.35	24.82
07/21/87	1545	11.68	185.30	7.21	91.50	0.35	24.80
07/21/87	1600	12.47	192.00	21.72	91.50	0.35	24.79
07/21/87	1615	12.92	167.00	6.47	92.00	0.35	24.79
07/21/87	1630	12.69	192.80	15.86	91.80	0.35	24.78
07/21/87	1645	11.72	167.50	11.58	91.90	0.35	24.78
07/21/87	1700	13.61	157.90	20.22	91.90	0.35	24.76
07/21/87	1715	13.85	164.30	11.99	92.60	0.35	24.76
07/21/87	1730	12.91	181.60	11.99	92.40	0.35	24.75
07/21/87	1745	15.13	175.00	15.94	93.10	0.35	24.75
07/21/87	1800	14.41	167.40	8.86	93.00	0.35	24.75
07/21/87	1815	16.29	173.10	19.83	92.90	0.35	24.73
07/21/87	1830	18.80	163.00	7.29	93.40	0.35	24.73
07/21/87	1845	18.18	162.50	6.47	93.50	0.35	24.72
07/21/87	1900	18.43	159.30	6.88	93.60	0.35	24.72
07/21/87	1915	20.25	165.20	7.64	93.20	0.35	24.71
07/21/87	1930	19.09	157.40	6.89	93.80	0.35	24.70
07/21/87	1945	23.71	154.20	8.46	92.60	0.35	24.47
07/21/87	2000	21.93	164.20	6.41	92.20	0.35	23.34
07/21/87	2015	20.76	166.20	6.41	92.40	0.35	22.88
07/21/87	2030	22.09	160.20	4.85	91.20	0.35	22.81

RMA METEOROLOGICAL DATA  
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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
07/21/87	2045	20.29	160.00	4.10	90.40	0.35	23.47
07/21/87	2100	20.38	160.30	4.85	89.80	0.35	23.53
07/21/87	2115	19.28	160.60	4.03	89.30	0.35	23.57
07/21/87	2130	18.77	159.40	4.03	88.70	0.35	23.57
07/21/87	2145	18.42	157.00	5.60	88.00	0.35	23.55
07/21/87	2200	16.56	155.00	5.19	87.20	0.35	23.53
07/21/87	2215	18.12	155.10	4.03	86.40	0.35	23.43
07/21/87	2230	19.65	159.30	4.37	85.70	0.35	23.28
07/21/87	2245	18.97	161.80	4.10	84.90	0.35	23.44
07/21/87	2300	17.74	165.20	4.44	84.50	0.35	23.46
07/21/87	2315	15.32	169.70	4.44	83.70	0.35	23.72
07/21/87	2330	19.43	178.20	4.38	83.70	0.35	23.72
07/21/87	2345	19.96	194.20	3.62	83.20	0.35	23.68
07/22/87	0	18.40	191.50	5.20	82.40	0.35	24.75
07/22/87	15	24.18	186.90	4.45	82.10	0.35	24.75
07/22/87	30	22.32	184.30	4.45	81.50	0.35	24.75
07/22/87	45	17.58	182.60	4.45	80.80	0.35	24.74
07/22/87	100	17.73	184.10	2.80	80.50	0.35	24.74
07/22/87	115	15.37	180.00	3.21	79.70	0.35	24.74
07/22/87	130	13.70	177.80	2.81	79.20	0.35	24.74
07/22/87	145	11.87	176.30	2.81	78.30	0.35	24.74
07/22/87	200	13.39	169.20	3.63	77.60	0.35	24.74
07/22/87	215	11.87	177.30	2.81	76.40	0.35	24.73
07/22/87	230	10.83	176.50	2.05	75.30	0.35	24.72
07/22/87	245	8.56	186.50	6.78	74.40	0.35	24.74
07/22/87	300	7.96	183.60	1.99	73.60	0.35	24.73
07/22/87	315	7.26	172.40	1.64	73.00	0.35	24.70
07/22/87	330	8.76	184.50	4.38	72.10	0.35	24.67
07/22/87	345	6.99	208.40	3.97	70.90	0.35	24.61
07/22/87	400	8.22	216.70	3.97	72.00	0.35	23.63
07/22/87	415	5.53	210.80	9.11	70.30	0.35	23.41
07/22/87	430	3.93	209.90	15.76	69.09	0.35	24.15
07/22/87	445	4.65	304.70	12.20	69.89	0.35	24.25
07/22/87	500	7.07	16.21	3.22	67.60	0.35	24.76
07/22/87	515	5.63	10.85	3.22	66.91	0.35	24.77
07/22/87	530	5.95	349.30	11.04	66.71	0.35	24.79
07/22/87	545	8.83	338.00	3.22	66.55	0.35	24.80
07/22/87	600	9.54	340.90	2.81	66.55	0.35	24.80
07/22/87	615	8.25	336.80	2.40	65.98	0.35	24.81
07/22/87	630	6.59	340.90	1.58	65.62	0.35	24.81
07/22/87	645	2.99	346.70	11.38	65.53	0.35	24.80
07/22/87	700	1.00	345.10	22.76	64.18	0.35	24.81
07/22/87	715	0.97	317.30	17.28	64.30	0.35	24.79
07/22/87	730	3.04	239.30	15.70	64.16	0.35	24.75
07/22/87	745	8.31	211.00	3.98	62.84	0.35	24.75
07/22/87	800	8.02	208.50	2.40	62.83	0.35	24.75

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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
07/22/87	815	6.77	221.10	2.74	63.29	0.35	24.75
07/22/87	830	7.12	226.10	3.57	63.53	0.35	24.78
07/22/87	845	6.93	223.20	3.57	64.11	0.35	24.80
07/22/87	900	7.08	216.80	2.40	65.40	0.35	24.74
07/22/87	915	7.81	212.50	4.80	67.51	0.35	22.97
07/22/87	930	8.93	218.30	4.04	69.18	0.35	23.22
07/22/87	945	8.19	215.70	5.21	70.60	0.35	23.85
07/22/87	1000	8.61	207.60	9.93	71.60	0.35	24.64
07/22/87	1015	8.37	203.30	10.33	72.60	0.35	23.56
07/22/87	1030	7.50	198.10	5.61	73.90	0.35	23.62
07/22/87	1045	4.09	190.40	31.87	75.00	0.35	23.77
07/22/87	1100	3.86	192.50	20.98	76.40	0.35	24.64
07/22/87	1115	4.45	191.30	30.67	76.50	0.35	24.85
07/22/87	1130	5.70	175.40	22.06	77.00	0.35	24.85
07/22/87	1145	4.71	171.00	24.78	77.80	0.35	24.85
07/22/87	1200	5.41	174.40	8.39	78.10	0.35	24.36
07/22/87	1215	4.97	175.10	25.99	78.70	0.35	22.67
07/22/87	1230	6.69	155.30	11.12	79.60	0.35	22.80
07/22/87	1245	7.05	150.30	15.07	80.20	0.35	22.59
07/22/87	1300	8.34	134.50	20.18	81.10	0.35	22.30
07/22/87	1315	9.11	142.10	25.97	81.90	0.35	22.20
07/22/87	1330	8.09	132.10	21.33	83.60	0.35	22.21
07/22/87	1345	6.86	137.40	15.81	84.50	0.35	22.94
07/22/87	1400	8.19	124.20	22.07	85.30	0.35	23.25
07/22/87	1415	7.45	124.80	14.31	86.30	0.35	22.88
07/22/87	1430	7.55	133.90	44.88	87.30	0.35	22.96
07/22/87	1445	7.59	148.60	15.12	88.30	0.35	23.63
07/22/87	1500	8.99	133.60	21.79	88.40	0.35	23.09
07/22/87	1515	8.60	141.30	25.26	89.50	0.35	22.64
07/22/87	1530	8.99	136.00	15.93	90.40	0.35	23.50
07/22/87	1545	9.63	128.80	15.12	91.10	0.35	23.03
07/22/87	1600	11.14	118.40	7.29	90.90	0.35	22.79
07/22/87	1615	11.52	126.60	20.63	90.70	0.35	22.56
07/22/87	1630	12.67	146.20	19.82	91.10	0.35	22.44
07/22/87	1645	9.30	156.10	24.11	91.10	0.35	22.31
07/22/87	1700	9.44	131.80	15.12	91.80	0.35	22.24
07/22/87	1715	10.43	126.40	17.09	92.10	0.35	22.23
07/22/87	1730	9.36	130.20	11.58	92.50	0.35	22.18
07/22/87	1745	11.54	114.80	22.54	92.70	0.35	22.17
07/22/87	1800	11.08	102.80	13.55	93.40	0.35	22.12
07/22/87	1815	9.23	127.30	36.30	93.00	0.35	21.99
07/22/87	1830	11.62	152.40	13.96	92.40	0.35	22.23
07/22/87	1845	10.69	130.40	17.44	92.80	0.35	22.64
07/22/87	1900	12.38	156.30	17.11	93.40	0.35	22.48
07/22/87	1915	11.94	141.20	13.15	93.10	0.35	22.33
07/22/87	1930	12.77	152.40	7.23	92.20	0.35	22.77

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FROM STATION M1  
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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
07/22/87	1945	13.60	155.70	4.84	91.30	0.35	22.86
07/22/87	2000	15.49	246.10	14.26	90.00	0.35	22.75
07/22/87	2015	23.68	327.00	5.59	86.60	0.35	22.49
07/22/87	2030	16.19	346.50	9.96	83.00	0.35	24.69
07/22/87	2045	12.55	341.80	5.19	79.10	0.35	23.90
07/22/87	2100	8.98	339.90	8.74	77.30	0.35	24.14
07/22/87	2115	4.07	28.78	16.13	76.60	0.35	23.99
07/22/87	2130	4.30	57.92	9.91	75.90	0.35	23.94
07/22/87	2145	6.79	43.19	3.97	75.60	0.35	24.37
07/22/87	2200	6.24	50.13	7.18	75.70	0.35	24.40
07/22/87	2215	4.67	50.09	12.24	74.60	0.35	23.89
07/22/87	2230	6.23	78.10	4.04	74.90	0.35	23.97
07/22/87	2245	8.74	92.80	6.36	75.00	0.35	23.69
07/22/87	2300	9.93	104.30	4.79	73.90	0.35	23.45
07/22/87	2315	9.74	113.30	4.79	73.30	0.35	23.39
07/22/87	2330	10.41	119.10	5.54	72.70	0.35	23.58
07/22/87	2345	10.18	134.20	2.81	71.90	0.35	24.08
07/23/87	0	9.25	138.40	5.55	70.90	0.35	24.67
07/23/87	15	4.86	169.10	10.27	69.74	0.35	24.76
07/23/87	30	6.62	224.10	7.88	69.98	0.35	24.80
07/23/87	45	8.52	189.10	4.73	71.30	0.35	24.82
07/23/87	100	7.94	184.20	3.56	70.90	0.35	24.82
07/23/87	115	7.81	176.60	2.40	71.80	0.35	24.82
07/23/87	130	3.85	180.60	32.61	70.80	0.35	24.82
07/23/87	145	5.84	308.70	11.79	69.74	0.35	24.81
07/23/87	200	1.95	249.00	36.11	70.60	0.35	24.79
07/23/87	215	2.85	117.30	5.96	70.20	0.35	24.78
07/23/87	230	6.05	154.00	9.46	69.95	0.35	24.81
07/23/87	245	8.72	187.20	1.65	68.21	0.35	24.81
07/23/87	300	8.42	192.00	3.22	68.43	0.35	24.81
07/23/87	315	8.69	205.50	3.22	69.01	0.35	24.81
07/23/87	330	6.65	221.70	3.22	67.65	0.35	24.81
07/23/87	345	6.86	248.30	2.81	67.31	0.35	24.81
07/23/87	400	4.70	241.70	10.63	66.86	0.35	24.81
07/23/87	415	4.61	204.10	3.56	66.59	0.35	24.81
07/23/87	430	7.56	195.40	1.58	67.86	0.35	24.81
07/23/87	445	7.31	210.00	2.74	68.50	0.35	24.81
07/23/87	500	4.36	200.30	52.38	66.64	0.35	24.81
07/23/87	515	3.31	214.80	1.99	67.13	0.35	24.81
07/23/87	530	4.94	203.90	3.56	66.60	0.35	24.81
07/23/87	545	5.26	200.10	2.40	66.00	0.35	24.81
07/23/87	600	5.71	202.40	1.99	66.24	0.35	24.80
07/23/87	615	6.28	199.20	1.58	65.59	0.35	24.80
07/23/87	630	6.61	199.70	2.40	64.32	0.35	24.79
07/23/87	645	5.59	199.20	2.33	64.13	0.35	24.79
07/23/87	700	6.40	206.00	0.75	64.39	0.35	24.79

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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
07/23/87	715	5.48	208.50	2.33	64.24	0.35	24.76
07/23/87	730	5.21	203.80	1.92	63.67	0.35	24.76
07/23/87	745	5.86	203.60	3.16	64.40	0.35	24.74
07/23/87	800	4.62	211.90	2.33	64.28	0.35	24.72
07/23/87	815	6.77	209.80	1.58	64.20	0.35	24.72
07/23/87	830	6.26	209.10	3.50	65.29	0.35	24.71
07/23/87	845	5.17	216.00	6.31	65.03	0.35	24.72
07/23/87	900	5.40	211.90	4.32	65.84	0.35	23.25
07/23/87	915	5.84	214.30	4.39	67.51	0.35	23.07
07/23/87	930	6.39	213.60	4.73	68.91	0.35	23.96
07/23/87	945	7.72	218.90	6.37	70.60	0.35	24.71
07/23/87	1000	7.27	215.40	4.38	72.60	0.35	24.60
07/23/87	1015	7.00	220.00	7.19	73.80	0.35	23.66
07/23/87	1030	3.97	224.10	18.95	76.30	0.35	24.00
07/23/87	1045	4.66	226.90	14.29	77.50	0.35	24.04
07/23/87	1100	3.63	226.00	18.93	78.80	0.35	24.82
07/23/87	1115	2.09	240.20	39.75	80.80	0.35	24.83
07/23/87	1130	2.37	58.94	38.56	82.80	0.35	24.83
07/23/87	1145	3.43	349.10	30.35	82.60	0.35	24.83
07/23/87	1200	4.31	54.56	15.41	84.00	0.35	24.83
07/23/87	1215	4.18	69.55	30.33	84.70	0.35	24.83
07/23/87	1230	4.44	48.41	22.14	86.20	0.35	24.83
07/23/87	1245	7.22	44.46	13.96	86.00	0.35	24.83
07/23/87	1300	8.61	37.77	12.74	86.60	0.35	24.83
07/23/87	1315	9.97	52.03	8.44	87.50	0.35	24.83
07/23/87	1330	8.64	68.68	10.42	88.90	0.35	24.83
07/23/87	1345	10.35	55.79	14.71	90.10	0.35	24.83
07/23/87	1400	10.47	76.50	11.17	90.10	0.35	24.82
07/23/87	1415	11.96	68.21	8.03	90.00	0.35	24.81
07/23/87	1430	7.64	45.79	25.67	90.70	0.35	24.82
07/23/87	1445	11.08	78.40	48.00	91.20	0.35	24.81
07/23/87	1500	9.56	73.80	14.36	91.30	0.35	24.81
07/23/87	1515	10.89	69.62	14.71	92.30	0.35	24.80
07/23/87	1530	9.82	76.60	27.98	92.30	0.35	24.80
07/23/87	1545	9.73	85.40	17.50	92.30	0.35	24.80
07/23/87	1600	9.79	67.16	10.01	92.90	0.35	24.79
07/23/87	1615	7.88	87.00	37.85	93.20	0.35	24.79
07/23/87	1630	11.63	66.36	11.16	94.20	0.35	24.78
07/23/87	1645	10.58	70.40	19.40	94.50	0.35	24.78
07/23/87	1700	9.72	59.68	9.60	94.50	0.35	24.78
07/23/87	1715	10.50	80.80	19.81	94.70	0.35	24.78
07/23/87	1730	13.58	81.40	17.09	94.20	0.35	24.78
07/23/87	1745	7.76	104.10	15.12	92.70	0.35	24.78
07/23/87	1800	10.92	98.40	21.73	94.20	0.35	24.77
07/23/87	1815	9.95	65.61	12.33	94.40	0.35	24.77
07/23/87	1830	10.03	73.90	20.57	94.30	0.35	24.77

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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
07/23/87	1845	10.94	79.50	14.71	94.80	0.35	24.76
07/23/87	1900	10.64	77.30	14.72	94.00	0.35	24.76
07/23/87	1915	11.86	85.20	19.42	94.30	0.35	24.76
07/23/87	1930	10.19	93.80	9.61	94.30	0.35	24.75
07/23/87	1945	10.26	94.70	15.47	94.20	0.35	24.75
07/23/87	2000	5.53	86.80	13.57	94.00	0.35	24.75
07/23/87	2015	11.08	86.00	8.39	93.80	0.35	24.76
07/23/87	2030	12.32	96.10	5.66	92.20	0.35	24.76
07/23/87	2045	13.87	80.50	5.66	92.40	0.35	24.76
07/23/87	2100	13.65	101.10	6.00	92.30	0.35	24.76
07/23/87	2115	10.14	86.10	5.59	92.00	0.35	24.76
07/23/87	2130	11.51	83.80	4.44	90.40	0.35	24.75
07/23/87	2145	9.32	80.90	3.62	88.90	0.35	24.75
07/23/87	2200	8.21	81.30	4.03	87.40	0.35	23.77
07/23/87	2215	9.80	90.00	3.62	85.80	0.35	23.58
07/23/87	2230	9.86	110.90	2.39	85.00	0.35	23.63
07/23/87	2245	9.66	113.50	3.21	84.60	0.35	23.63
07/23/87	2300	9.34	115.20	2.80	83.60	0.35	23.70
07/23/87	2315	9.66	124.10	4.38	83.20	0.35	23.66
07/23/87	2330	10.16	128.70	2.46	81.70	0.35	23.65
07/23/87	2345	9.75	128.70	4.45	80.80	0.35	23.70
07/24/87	0	9.54	143.20	3.21	80.10	0.35	23.66
07/24/87	15	10.37	155.20	4.04	80.00	0.35	23.44
07/24/87	30	10.17	168.90	2.87	79.30	0.35	23.33
07/24/87	45	14.42	193.90	5.20	80.50	0.35	23.39
07/24/87	100	19.08	199.90	6.36	78.70	0.35	23.00
07/24/87	115	18.60	216.70	4.45	73.30	0.35	23.95
07/24/87	130	23.40	194.10	2.87	74.20	0.35	24.83
07/24/87	145	23.38	178.20	7.94	75.00	0.35	24.84
07/24/87	200	24.83	170.10	4.04	77.10	0.35	24.84
07/24/87	215	24.73	150.60	4.86	78.10	0.35	24.83
07/24/87	230	23.36	125.20	5.61	79.30	0.35	24.82
07/24/87	245	18.12	155.80	3.22	76.40	0.35	24.82
07/24/87	300	16.10	148.70	4.04	74.60	0.35	24.83
07/24/87	315	12.87	154.10	3.29	73.10	0.35	24.84
07/24/87	330	12.39	169.90	3.22	73.20	0.35	24.84
07/24/87	345	11.07	174.70	2.81	73.40	0.35	24.84
07/24/87	400	11.45	171.60	2.05	74.10	0.35	24.84
07/24/87	415	10.14	169.80	2.05	73.40	0.35	24.84
07/24/87	430	10.86	172.20	2.05	73.10	0.35	24.84
07/24/87	445	10.33	195.80	7.53	71.70	0.35	24.84
07/24/87	500	7.56	200.40	5.14	69.72	0.35	24.15
07/24/87	515	8.20	215.30	3.22	69.74	0.35	24.58
07/24/87	530	8.93	215.60	2.06	69.57	0.35	24.77
07/24/87	545	8.35	203.30	2.06	69.12	0.35	23.95
07/24/87	600	6.87	204.10	5.55	67.88	0.35	23.80

RMA METEOROLOGICAL DATA  
FROM STATION M1  
07/17 - 10/08, 1987

DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
07/24/87	615	9.21	181.40	12.20	67.44	0.35	23.45
07/24/87	630	11.78	176.00	10.28	67.07	0.35	22.93
07/24/87	645	10.95	183.30	6.30	67.47	0.35	22.75
07/24/87	700	9.54	200.20	1.99	67.46	0.35	22.64
07/24/87	715	7.95	176.80	2.40	66.50	0.35	22.73
07/24/87	730	4.59	182.70	1.99	66.84	0.35	23.31
07/24/87	745	8.47	184.90	5.89	67.85	0.35	24.72
07/24/87	800	4.69	119.00	22.01	65.47	0.35	24.71
07/24/87	815	5.18	98.50	19.26	62.22	0.35	23.46
07/24/87	830	5.87	123.30	16.87	63.19	0.35	23.20
07/24/87	845	4.56	119.20	5.48	63.95	0.35	24.12
07/24/87	900	1.78	105.70	16.52	66.74	0.35	23.15
07/24/87	915	1.91	63.83	29.46	69.09	0.35	23.44
07/24/87	930	2.23	29.50	27.12	70.30	0.35	23.65
07/24/87	945	1.47	30.38	54.22	71.50	0.35	23.62
07/24/87	1000	2.88	306.40	12.66	71.90	0.35	23.70
07/24/87	1015	2.88	299.90	12.59	72.80	0.35	23.49
07/24/87	1030	5.39	306.90	13.40	72.60	0.35	23.26
07/24/87	1045	8.18	329.60	11.07	72.00	0.35	22.55
07/24/87	1100	6.03	341.40	15.78	72.40	0.35	22.38
07/24/87	1115	3.94	348.50	23.22	73.50	0.35	22.20
07/24/87	1130	5.60	342.90	12.70	74.40	0.35	22.13
07/24/87	1145	6.10	344.40	20.54	75.20	0.35	22.48
07/24/87	1200	5.61	1.77	30.37	76.20	0.35	22.84
07/24/87	1215	6.35	0.43	27.22	76.60	0.35	23.09
07/24/87	1230	5.04	22.10	17.80	77.90	0.35	23.32
07/24/87	1245	5.70	336.10	9.61	78.10	0.35	23.34
07/24/87	1300	4.39	2.70	33.87	80.40	0.35	23.47
07/24/87	1315	4.45	11.49	18.60	80.40	0.35	23.01
07/24/87	1330	4.12	344.50	17.03	81.10	0.35	23.37
07/24/87	1345	4.48	349.40	22.14	81.90	0.35	23.31
07/24/87	1400	4.53	23.16	29.96	83.50	0.35	22.63
07/24/87	1415	3.07	310.00	42.96	86.60	0.35	24.38
07/24/87	1430	3.84	92.00	59.42	87.70	0.35	24.88
07/24/87	1445	4.22	348.80	37.84	87.80	0.35	24.90
07/24/87	1500	4.49	294.10	36.67	88.10	0.35	24.90
07/24/87	1515	8.36	303.10	20.61	87.10	0.35	24.89
07/24/87	1530	6.07	344.20	55.51	87.80	0.35	24.88
07/24/87	1545	6.53	9.87	25.24	88.80	0.35	24.88
07/24/87	1600	6.83	340.20	21.02	89.00	0.35	24.88
07/24/87	1615	5.73	329.60	22.99	89.30	0.35	24.87
07/24/87	1630	5.01	347.30	35.10	89.10	0.35	24.86
07/24/87	1645	5.50	335.00	36.68	90.20	0.35	24.86
07/24/87	1700	6.99	343.80	22.59	91.70	0.35	24.85
07/24/87	1715	9.22	316.50	9.59	91.70	0.35	24.85
07/24/87	1730	8.47	317.10	14.35	92.30	0.35	24.85

RMA METEOROLOGICAL DATA  
FROM STATION M1  
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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
07/24/87	1745	7.54	353.80	11.97	92.70	0.35	24.85
07/24/87	1800	9.98	28.53	10.00	90.30	0.35	24.84
07/24/87	1815	12.73	60.64	6.06	87.70	0.35	23.70
07/24/87	1830	16.15	99.70	4.84	79.90	0.38	23.85
07/24/87	1845	16.12	130.20	13.03	77.00	0.57	24.83
07/24/87	1900	11.38	79.10	14.55	79.00	0.01	24.61
07/24/87	1915	11.68	41.05	11.48	80.90	0.05	24.87
07/24/87	1930	9.11	76.30	4.79	78.50	0.05	24.86
07/24/87	1945	3.91	26.45	7.52	75.00	0.05	24.86
07/24/87	2000	3.71	51.30	12.66	78.30	0.05	24.86
07/24/87	2015	3.00	276.20	6.36	78.20	0.05	24.86
07/24/87	2030	1.65	305.20	31.06	79.90	0.05	24.58
07/24/87	2045	4.82	94.80	8.35	81.70	0.05	23.40
07/24/87	2100	5.24	82.30	9.51	80.30	0.05	23.01
07/24/87	2115	6.67	84.00	14.23	80.10	0.05	22.33
07/24/87	2130	3.99	94.00	12.65	80.60	0.05	22.04
07/24/87	2145	9.80	200.20	5.61	81.40	0.05	21.93
07/24/87	2200	6.15	131.00	8.76	83.40	0.05	21.82
07/24/87	2215	5.20	105.00	4.38	83.60	0.05	21.74
07/24/87	2230	8.50	98.20	2.46	81.30	0.05	21.82
07/24/87	2245	9.69	106.00	2.81	81.60	0.05	22.39
07/24/87	2300	8.64	96.60	13.00	78.00	0.05	23.19
07/24/87	2315	6.43	50.72	6.36	75.10	0.05	24.88
07/24/87	2330	4.48	75.40	8.76	76.50	0.05	24.89
07/24/87	2345	3.65	77.20	9.93	79.60	0.05	24.89
07/25/87	0	1.42	125.00	26.36	79.70	0.05	24.89
07/25/87	15	3.01	171.80	2.46	80.00	0.05	24.89
07/25/87	30	6.86	159.20	2.46	80.10	0.05	24.89
07/25/87	45	10.20	154.60	1.23	75.70	0.05	24.89
07/25/87	100	9.01	169.30	3.22	75.40	0.05	24.89
07/25/87	115	5.23	212.50	13.42	73.40	0.05	24.89
07/25/87	130	5.45	234.80	2.46	74.60	0.05	24.89
07/25/87	145	6.93	208.30	6.78	74.80	0.05	24.89
07/25/87	200	8.85	185.10	3.63	74.70	0.05	24.89
07/25/87	215	7.67	187.40	3.22	73.30	0.05	24.89
07/25/87	230	7.22	191.40	3.22	72.70	0.05	24.89
07/25/87	245	6.56	183.90	3.22	71.60	0.05	24.89
07/25/87	300	8.12	174.00	1.99	71.70	0.05	24.88
07/25/87	315	8.81	177.40	4.38	70.10	0.05	24.88
07/25/87	330	7.91	188.00	2.81	69.06	0.05	24.88
07/25/87	345	8.45	194.40	9.87	69.49	0.05	24.87
07/25/87	400	8.34	198.70	4.73	69.55	0.05	24.87
07/25/87	415	7.60	196.30	1.65	69.51	0.05	24.87
07/25/87	430	6.81	195.60	1.23	69.34	0.05	24.86
07/25/87	445	6.16	187.30	1.58	69.16	0.05	24.86
07/25/87	500	4.87	198.00	14.19	67.69	0.05	24.83



RMA METEOROLOGICAL DATA  
FROM STATION M1  
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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
07/25/87	515	4.18	213.80	2.74	67.19	0.05	24.77
07/25/87	530	4.52	207.90	3.15	67.64	0.05	24.80
07/25/87	545	5.42	202.00	1.58	67.27	0.05	24.80
07/25/87	600	4.75	201.50	3.56	66.94	0.05	24.80
07/25/87	615	2.21	202.60	17.28	67.04	0.05	24.79
07/25/87	630	2.32	205.00	12.96	67.35	0.05	24.77
07/25/87	645	4.25	191.30	4.32	67.44	0.05	24.76
07/25/87	700	7.87	181.20	1.58	67.64	0.05	24.76
07/25/87	715	8.87	179.40	2.33	67.81	0.05	24.76
07/25/87	730	6.85	178.30	1.17	67.32	0.05	24.76
07/25/87	745	7.19	170.70	1.17	67.25	0.05	24.76
07/25/87	800	6.22	168.10	1.58	66.54	0.05	24.76
07/25/87	815	3.61	193.60	23.11	65.44	0.05	24.76
07/25/87	830	3.30	224.10	8.23	65.47	0.05	24.76
07/25/87	845	4.86	182.10	2.40	66.20	0.05	24.77
07/25/87	900	5.52	176.60	3.15	66.74	0.05	22.73
07/25/87	915	6.58	178.20	3.15	68.21	0.05	22.20
07/25/87	930	6.78	180.00	3.97	69.17	0.05	22.46
07/25/87	945	4.89	205.50	8.70	70.30	0.05	23.19
07/25/87	1000	5.78	203.50	5.96	70.70	0.05	22.67
07/25/87	1015	8.81	209.40	6.37	71.50	0.05	22.54
07/25/87	1030	10.10	212.40	3.69	71.80	0.05	22.51
07/25/87	1045	10.71	219.00	3.28	73.30	0.05	23.29
07/25/87	1100	10.38	221.40	6.02	73.90	0.05	23.06
07/25/87	1115	8.75	235.90	5.95	75.00	0.05	23.84
07/25/87	1130	5.73	223.80	20.16	76.50	0.05	24.42
07/25/87	1145	4.98	233.00	15.44	78.10	0.05	23.96
07/25/87	1200	3.80	234.30	22.94	79.10	0.05	23.68
07/25/87	1215	4.64	271.90	20.20	79.60	0.05	23.54
07/25/87	1230	3.87	278.80	22.10	80.40	0.05	23.09
07/25/87	1245	3.67	280.50	19.84	81.90	0.05	23.41
07/25/87	1300	3.47	263.90	24.46	83.20	0.05	23.37
07/25/87	1315	2.08	234.40	54.02	85.40	0.05	23.91
07/25/87	1330	5.33	318.00	16.68	84.80	0.05	24.87
07/25/87	1345	5.00	323.00	22.12	84.80	0.05	24.86
07/25/87	1400	5.70	303.60	20.62	86.10	0.05	24.86
07/25/87	1415	3.78	6.96	60.23	87.30	0.05	24.86
07/25/87	1430	4.66	331.10	26.81	89.20	0.05	24.85
07/25/87	1445	6.29	55.87	33.95	90.00	0.05	24.84
07/25/87	1500	11.16	112.40	9.59	90.00	0.05	24.83
07/25/87	1515	8.34	112.00	9.60	90.60	0.05	24.83
07/25/87	1530	6.42	157.60	13.95	90.60	0.05	24.83
07/25/87	1545	5.55	148.30	55.13	91.40	0.05	24.83
07/25/87	1600	9.70	126.40	27.23	91.00	0.05	24.83
07/25/87	1615	10.43	137.40	12.73	91.30	0.05	24.83
07/25/87	1630	8.46	129.70	17.84	91.20	0.05	24.82

RMA METEOROLOGICAL DATA  
FROM STATION M1  
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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
07/25/87	1645	9.62	102.10	49.91	91.20	0.05	24.81
07/25/87	1700	10.36	133.60	37.39	91.40	0.05	24.81
07/25/87	1715	11.83	109.70	20.97	92.30	0.05	24.81
07/25/87	1730	10.98	132.40	20.98	91.90	0.05	24.78
07/25/87	1745	7.74	148.30	13.15	92.80	0.05	23.25
07/25/87	1800	13.82	117.90	10.42	92.20	0.05	22.56
07/25/87	1815	8.15	121.10	19.82	92.30	0.05	22.51
07/25/87	1830	8.32	133.60	19.41	92.50	0.05	21.90
07/25/87	1845	10.58	163.90	14.31	92.40	0.05	21.61
07/25/87	1900	10.89	161.90	13.90	92.70	0.05	21.62
07/25/87	1915	9.27	143.00	26.04	92.50	0.05	21.92
07/25/87	1930	9.18	174.50	14.72	92.60	0.05	22.12
07/25/87	1945	7.24	171.40	10.77	92.80	0.05	22.09
07/25/87	2000	7.29	157.70	28.37	93.00	0.05	21.57
07/25/87	2015	5.68	160.20	27.96	93.00	0.05	21.40
07/25/87	2030	5.02	165.60	17.46	92.80	0.05	21.44
07/25/87	2045	5.95	158.90	11.12	92.80	0.05	21.49
07/25/87	2100	5.32	191.50	9.96	92.70	0.05	22.31
07/25/87	2115	5.65	173.90	6.41	92.30	0.05	22.09
07/25/87	2130	5.72	181.80	8.40	91.40	0.05	22.24
07/25/87	2145	3.66	185.80	5.26	90.80	0.05	22.59
07/25/87	2200	3.15	181.80	2.87	89.60	0.05	23.24
07/25/87	2215	4.40	154.20	7.58	89.00	0.05	23.47
07/25/87	2230	6.88	136.50	9.09	87.80	0.05	23.87
07/25/87	2245	11.34	137.10	4.03	83.60	0.05	23.84
07/25/87	2300	10.97	150.10	2.87	81.80	0.05	23.37
07/25/87	2315	12.09	155.50	3.28	82.20	0.05	23.22
07/25/87	2330	13.10	160.00	3.69	82.20	0.05	22.99
07/25/87	2345	11.90	150.30	3.28	80.90	0.05	22.79
07/26/87	0	12.01	153.60	2.87	79.80	0.05	22.71
07/26/87	15	10.85	153.10	2.46	78.40	0.05	23.45
07/26/87	30	10.22	157.60	2.87	77.50	0.05	24.07
07/26/87	45	10.18	150.70	2.05	76.50	0.05	24.27
07/26/87	100	9.24	163.20	6.78	75.50	0.05	24.65
07/26/87	115	11.08	169.00	3.63	75.90	0.05	24.78
07/26/87	130	16.65	167.00	3.63	79.00	0.05	24.81
07/26/87	145	13.35	172.80	2.81	78.50	0.05	24.81
07/26/87	200	11.02	176.50	1.64	77.60	0.05	24.81
07/26/87	215	10.62	174.40	1.23	77.00	0.05	24.81
07/26/87	230	10.09	177.20	1.64	76.40	0.05	24.81
07/26/87	245	11.73	184.80	2.81	76.90	0.05	24.82
07/26/87	300	11.87	194.10	3.22	77.00	0.05	24.82
07/26/87	315	11.20	184.60	2.81	76.20	0.05	24.82
07/26/87	330	9.55	195.20	3.63	75.70	0.05	24.82
07/26/87	345	8.54	209.70	4.04	74.60	0.05	24.82
07/26/87	400	7.39	214.80	6.78	74.10	0.05	24.83

RMA METEOROLOGICAL DATA  
FROM STATION M1  
07/17 - 10/08, 1987

DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
07/26/87	415	6.30	218.50	7.53	73.30	0.05	24.83
07/26/87	430	4.91	197.60	6.37	72.60	0.05	24.83
07/26/87	445	4.92	220.60	9.86	73.60	0.05	24.84
07/26/87	500	5.59	242.40	5.55	74.00	0.05	24.84
07/26/87	515	4.59	236.60	7.12	73.60	0.05	24.84
07/26/87	530	4.77	245.20	7.88	72.60	0.05	24.84
07/26/87	545	4.69	245.70	3.56	71.70	0.05	24.84
07/26/87	600	5.48	253.20	5.89	71.70	0.05	24.84
07/26/87	615	6.53	267.20	5.55	71.00	0.05	24.84
07/26/87	630	6.21	282.60	4.39	70.80	0.05	24.83
07/26/87	645	4.68	290.20	7.88	69.48	0.05	24.82
07/26/87	700	2.78	245.50	18.85	67.93	0.05	24.81
07/26/87	715	2.97	255.60	15.70	68.16	0.05	24.78
07/26/87	730	4.18	252.00	3.91	68.31	0.05	24.76
07/26/87	745	4.12	237.10	6.31	67.52	0.05	24.74
07/26/87	800	4.36	242.30	4.32	67.15	0.05	24.75
07/26/87	815	4.71	233.70	6.31	68.07	0.05	24.79
07/26/87	830	6.65	240.50	1.99	68.84	0.05	24.80
07/26/87	845	6.37	222.40	4.39	68.35	0.05	24.79
07/26/87	900	4.35	216.60	6.37	67.37	0.05	24.79
07/26/87	915	5.66	239.00	2.81	67.57	0.05	24.83
07/26/87	930	4.39	239.20	5.21	69.31	0.05	24.85
07/26/87	945	5.33	232.80	4.45	71.30	0.05	24.83
07/26/87	1000	5.20	228.30	10.74	72.80	0.05	24.79
07/26/87	1015	2.92	233.80	21.76	75.10	0.05	24.39
07/26/87	1030	2.18	310.40	18.53	76.60	0.05	24.25
07/26/87	1045	1.66	347.20	19.34	78.30	0.05	24.38
07/26/87	1100	3.45	359.70	11.54	77.50	0.05	23.21
07/26/87	1115	3.35	333.90	22.12	78.00	0.05	22.62
07/26/87	1130	4.12	330.60	17.40	78.30	0.05	22.45
07/26/87	1145	4.47	306.00	18.21	79.00	0.05	22.86
07/26/87	1200	4.26	319.20	30.33	80.30	0.05	23.41
07/26/87	1215	4.38	304.70	10.43	81.10	0.05	23.36
07/26/87	1230	4.62	330.10	15.46	81.80	0.05	23.03
07/26/87	1245	6.04	339.60	17.43	83.10	0.05	22.40
07/26/87	1300	8.00	347.40	19.00	83.60	0.05	21.86
07/26/87	1315	8.63	2.92	10.01	83.10	0.05	21.91
07/26/87	1330	9.79	355.90	10.76	83.20	0.05	22.31
07/26/87	1345	9.57	12.60	8.78	83.80	0.05	21.87
07/26/87	1400	7.61	357.30	13.49	84.30	0.05	21.68
07/26/87	1415	8.78	36.96	11.92	85.20	0.05	21.44
07/26/87	1430	7.35	31.92	22.13	85.70	0.05	21.35
07/26/87	1445	8.76	68.83	16.21	86.00	0.05	21.30
07/26/87	1500	9.13	53.86	21.73	87.30	0.05	21.28
07/26/87	1515	8.02	39.12	17.44	87.90	0.05	21.38
07/26/87	1530	6.27	22.83	8.44	88.80	0.05	21.48

RMA METEOROLOGICAL DATA  
FROM STATION M1  
07/17 - 10/08, 1987

DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
07/26/87	1545	5.44	41.06	29.96	88.80	0.05	21.47
07/26/87	1600	8.58	57.43	13.14	89.70	0.05	21.78
07/26/87	1615	9.10	60.95	15.87	89.40	0.05	21.37
07/26/87	1630	8.44	41.60	24.04	90.00	0.05	21.26
07/26/87	1645	6.55	2.62	17.84	89.70	0.05	21.17
07/26/87	1700	7.43	0.87	23.29	89.40	0.05	21.16
07/26/87	1715	6.22	359.00	26.01	90.70	0.05	21.05
07/26/87	1730	6.20	359.40	17.43	90.60	0.05	21.01
07/26/87	1745	6.36	44.13	35.88	91.50	0.05	20.99
07/26/87	1800	6.91	343.50	14.71	91.50	0.05	20.87
07/26/87	1815	4.90	3.69	15.12	91.70	0.05	20.80
07/26/87	1830	7.56	321.90	9.60	91.80	0.05	20.75
07/26/87	1845	9.48	338.70	8.78	91.90	0.05	20.74
07/26/87	1900	7.75	357.30	15.87	92.30	0.05	20.86
07/26/87	1915	8.43	347.70	5.65	92.20	0.05	20.89
07/26/87	1930	10.68	335.10	11.51	91.70	0.05	20.88
07/26/87	1945	8.29	342.00	11.92	91.80	0.05	21.09
07/26/87	2000	9.46	341.10	6.00	91.80	0.05	21.17
07/26/87	2015	9.57	341.50	4.16	91.30	0.05	21.46
07/26/87	2030	9.05	342.00	6.07	90.70	0.05	21.99
07/26/87	2045	8.69	341.80	3.68	90.30	0.05	21.98
07/26/87	2100	9.92	340.40	4.09	89.90	0.05	22.22
07/26/87	2115	11.55	338.30	5.25	88.90	0.05	22.21
07/26/87	2130	9.80	324.90	6.01	87.40	0.05	22.56
07/26/87	2145	9.57	318.90	2.87	85.00	0.05	23.43
07/26/87	2200	8.94	317.70	2.87	83.50	0.05	24.43
07/26/87	2215	8.04	317.70	3.62	82.30	0.05	24.24
07/26/87	2230	6.49	338.00	4.78	81.90	0.05	23.84
07/26/87	2245	7.36	330.90	9.98	80.60	0.05	23.85
07/26/87	2300	8.09	331.70	15.86	81.80	0.05	23.71
07/26/87	2315	5.87	347.90	6.36	80.40	0.05	23.22
07/26/87	2330	6.64	343.40	2.46	80.00	0.05	23.18
07/26/87	2345	6.43	342.80	2.05	79.10	0.05	23.90
07/27/87	0	5.34	344.60	3.63	78.00	0.05	24.16
07/27/87	15	5.23	344.70	1.23	77.80	0.05	24.11
07/27/87	30	6.69	327.20	3.63	77.70	0.05	24.15
07/27/87	45	4.97	287.80	13.42	76.40	0.05	24.24
07/27/87	100	5.67	291.50	2.46	75.90	0.05	24.14
07/27/87	115	5.04	268.80	5.55	75.40	0.05	24.07
07/27/87	130	6.07	243.90	7.53	75.10	0.05	24.06
07/27/87	145	4.90	247.90	6.71	75.60	0.05	23.97
07/27/87	200	4.91	256.50	11.03	76.30	0.05	23.95
07/27/87	215	4.91	234.70	9.04	75.40	0.05	23.93
07/27/87	230	3.73	257.40	5.55	76.00	0.05	23.84
07/27/87	245	3.26	245.40	5.55	75.80	0.05	23.84
07/27/87	300	4.61	218.60	3.97	75.60	0.05	23.88

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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
07/27/87	315	5.94	231.60	10.69	74.20	0.05	23.84
07/27/87	330	3.75	243.70	9.86	74.20	0.05	23.97
07/27/87	345	2.68	210.30	23.98	73.80	0.05	24.34
07/27/87	400	1.56	202.60	14.59	74.50	0.05	24.67
07/27/87	415	3.94	156.60	8.29	74.80	0.05	24.73
07/27/87	430	6.58	168.30	1.58	74.00	0.05	24.76
07/27/87	445	6.91	176.40	3.15	74.70	0.05	24.80
07/27/87	500	4.28	174.30	40.43	71.90	0.05	24.80
07/27/87	515	3.31	107.10	6.30	69.16	0.05	24.80
07/27/87	530	8.27	132.40	4.32	67.87	0.05	24.80
07/27/87	545	9.78	139.50	1.17	69.43	0.05	24.80
07/27/87	600	9.73	153.90	2.33	69.17	0.05	24.80
07/27/87	615	10.73	150.20	1.58	68.94	0.05	24.80
07/27/87	630	8.47	155.20	4.32	67.34	0.05	24.80
07/27/87	645	7.63	159.20	6.72	68.60	0.05	24.81
07/27/87	700	6.72	166.90	4.73	67.83	0.05	24.82
07/27/87	715	7.92	150.50	2.74	66.47	0.05	24.82
07/27/87	730	7.78	154.20	2.40	65.38	0.05	24.82
07/27/87	745	8.20	154.80	1.99	65.54	0.05	24.82
07/27/87	800	8.06	155.90	1.99	65.10	0.05	24.82
07/27/87	815	6.84	157.60	1.99	65.60	0.05	24.82
07/27/87	830	5.44	179.90	1.99	66.81	0.05	24.82
07/27/87	845	5.35	216.40	1.65	69.22	0.05	24.81
07/27/87	900	4.53	226.70	4.04	69.25	0.05	24.79
07/27/87	915	3.79	236.20	5.21	69.48	0.05	24.59
07/27/87	930	3.05	235.60	6.78	70.40	0.05	23.81
07/27/87	945	3.55	228.50	8.01	71.80	0.05	23.40
07/27/87	1000	4.11	240.40	8.76	73.90	0.05	23.71
07/27/87	1015	4.29	257.70	12.65	75.40	0.05	23.86
07/27/87	1030	4.03	297.30	11.08	76.20	0.05	23.90
07/27/87	1045	2.00	330.00	49.13	78.50	0.05	24.64
07/27/87	1100	2.58	10.77	38.99	79.20	0.05	24.79
07/27/87	1115	3.28	352.00	13.51	79.70	0.05	24.79
07/27/87	1130	3.75	19.86	22.51	80.00	0.05	24.79
07/27/87	1145	3.49	358.20	29.94	81.20	0.05	24.79
07/27/87	1200	3.91	2.15	19.77	81.30	0.05	24.78
07/27/87	1215	3.35	331.30	45.32	82.20	0.05	24.76
07/27/87	1230	3.43	316.60	24.45	83.50	0.05	24.45
07/27/87	1245	4.08	4.63	39.76	83.10	0.05	24.23
07/27/87	1300	4.83	332.50	22.12	83.20	0.05	24.22
07/27/87	1315	4.64	4.09	35.46	84.40	0.05	24.06
07/27/87	1330	3.98	313.20	47.23	84.80	0.05	23.77
07/27/87	1345	3.78	59.02	55.11	86.40	0.05	23.69
07/27/87	1400	3.32	20.04	59.05	87.30	0.05	23.79
07/27/87	1415	4.67	22.14	42.17	87.60	0.05	24.79
07/27/87	1430	4.55	49.72	21.77	87.60	0.05	24.80

RMA METEOROLOGICAL DATA  
FROM STATION M1  
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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
07/27/87	1445	6.35	334.70	14.63	87.40	0.05	24.80
07/27/87	1500	5.18	346.00	35.84	88.40	0.05	24.80
07/27/87	1515	5.54	327.20	26.45	88.70	0.05	24.78
07/27/87	1530	6.10	355.10	23.73	89.10	0.05	24.78
07/27/87	1545	6.04	357.10	37.00	89.90	0.05	24.78
07/27/87	1600	5.68	354.80	57.87	90.50	0.05	24.78
07/27/87	1615	6.11	353.60	15.51	91.00	0.05	24.77
07/27/87	1630	5.14	359.10	22.99	91.30	0.05	24.77
07/27/87	1645	7.48	342.20	40.20	90.70	0.05	24.77
07/27/87	1700	8.97	332.90	7.28	91.40	0.05	24.76
07/27/87	1715	7.81	349.70	18.64	91.80	0.05	24.75
07/27/87	1730	10.37	339.80	10.81	92.20	0.05	24.74
07/27/87	1745	7.72	5.51	11.15	92.80	0.05	24.75
07/27/87	1800	9.54	30.24	14.29	92.60	0.05	24.74
07/27/87	1815	6.41	36.96	50.37	91.50	0.05	23.33
07/27/87	1830	9.16	33.46	11.10	90.60	0.05	22.63
07/27/87	1845	6.20	20.84	12.26	90.70	0.05	22.35
07/27/87	1900	8.16	336.50	16.22	91.00	0.05	21.79
07/27/87	1915	11.87	332.30	6.41	89.70	0.05	21.39
07/27/87	1930	11.62	321.00	6.48	89.30	0.05	21.92
07/27/87	1945	11.33	318.20	4.50	89.20	0.05	22.03
07/27/87	2000	10.78	323.70	5.66	89.00	0.05	22.29
07/27/87	2015	12.13	330.80	8.80	89.30	0.05	21.72
07/27/87	2030	14.77	336.70	2.87	88.10	0.05	22.18
07/27/87	2045	12.13	339.00	4.44	87.90	0.05	22.66
07/27/87	2100	12.25	331.90	8.40	86.20	0.05	23.74
07/27/87	2115	10.93	328.90	2.80	84.40	0.05	24.12
07/27/87	2130	9.71	337.80	2.05	85.00	0.05	23.35
07/27/87	2145	8.27	348.50	5.60	84.40	0.05	22.92
07/27/87	2200	7.78	356.60	5.95	83.40	0.05	22.57
07/27/87	2215	5.99	1.87	4.78	82.30	0.05	22.37
07/27/87	2230	5.13	10.58	2.39	80.80	0.05	22.28
07/27/87	2245	5.71	3.76	8.00	79.40	0.05	23.52
07/27/87	2300	6.75	345.20	3.62	78.40	0.05	24.37
07/27/87	2315	6.73	344.20	4.04	77.20	0.05	24.71
07/27/87	2330	6.87	343.70	2.87	76.80	0.05	24.70
07/27/87	2345	6.36	320.60	14.23	76.00	0.05	24.58
07/28/87	0	9.95	275.20	5.20	75.40	0.05	24.67
07/28/87	15	8.81	298.70	7.53	75.80	0.05	24.68
07/28/87	30	9.09	270.70	3.63	74.90	0.05	24.68
07/28/87	45	8.41	277.90	2.81	76.90	0.05	24.68
07/28/87	100	8.11	318.10	15.40	77.00	0.05	24.68
07/28/87	115	7.70	309.80	3.22	76.60	0.05	24.68
07/28/87	130	6.44	297.40	4.04	74.80	0.05	24.69
07/28/87	145	5.66	285.40	4.38	75.60	0.05	24.73
07/28/87	200	4.18	273.60	4.79	75.50	0.05	24.72

RMA METEOROLOGICAL DATA  
FROM STATION M1  
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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
07/28/87	215	3.57	221.30	8.70	75.00	0.05	24.72
07/28/87	230	2.17	197.30	3.97	74.40	0.05	24.74
07/28/87	245	1.59	204.80	25.48	74.80	0.05	24.69
07/28/87	300	3.08	96.90	10.28	72.80	0.05	24.36
07/28/87	315	3.30	96.60	11.79	72.50	0.05	24.10
07/28/87	330	6.13	165.80	6.30	72.70	0.05	24.52
07/28/87	345	5.62	192.00	5.14	73.80	0.05	24.61
07/28/87	400	6.75	200.40	2.40	72.20	0.05	24.61
07/28/87	415	7.41	201.90	1.99	71.70	0.05	24.63
07/28/87	430	7.16	193.80	1.58	70.60	0.05	24.63
07/28/87	445	6.63	201.00	3.15	70.30	0.05	24.64
07/28/87	500	5.24	197.20	2.40	70.00	0.05	24.65
07/28/87	515	6.39	188.60	1.99	69.57	0.05	24.65
07/28/87	530	7.80	189.60	1.99	69.60	0.05	24.65
07/28/87	545	8.08	193.00	1.58	68.02	0.05	24.64
07/28/87	600	7.83	186.70	1.58	67.85	0.05	24.64
07/28/87	615	7.89	193.90	2.33	67.51	0.05	24.65
07/28/87	630	8.26	196.60	2.33	67.39	0.05	24.64
07/28/87	645	7.27	192.30	2.40	66.99	0.05	24.65
07/28/87	700	7.29	196.00	1.99	66.82	0.05	24.65
07/28/87	715	7.41	196.50	1.65	65.96	0.05	24.61
07/28/87	730	7.32	192.70	1.65	66.17	0.05	24.38
07/28/87	745	9.04	187.70	1.23	66.51	0.05	24.43
07/28/87	800	9.66	184.60	0.82	66.22	0.05	24.74
07/28/87	815	8.18	185.60	3.15	66.11	0.05	24.77
07/28/87	830	5.12	188.80	8.71	67.04	0.05	24.78
07/28/87	845	6.07	185.90	1.99	68.05	0.05	24.78
07/28/87	900	7.52	191.70	3.63	68.91	0.05	24.78
07/28/87	915	6.41	196.50	5.55	69.86	0.05	24.79
07/28/87	930	7.68	204.70	4.45	70.30	0.05	24.79
07/28/87	945	8.52	213.70	4.45	71.40	0.05	24.79
07/28/87	1000	8.91	220.40	4.04	72.50	0.05	24.80
07/28/87	1015	8.29	219.10	4.86	73.80	0.05	24.79
07/28/87	1030	6.44	222.00	4.86	75.20	0.05	24.69
07/28/87	1045	5.06	231.10	13.53	77.00	0.05	24.38
07/28/87	1100	3.82	245.10	13.87	78.50	0.05	24.37
07/28/87	1115	2.88	266.20	22.88	79.90	0.05	24.78
07/28/87	1130	1.74	77.60	38.96	82.30	0.05	23.82
07/28/87	1145	3.85	9.77	18.96	82.30	0.05	22.74
07/28/87	1200	3.33	6.29	54.33	82.50	0.05	21.55
07/28/87	1215	3.64	11.17	22.55	83.40	0.05	21.23
07/28/87	1230	3.26	334.50	41.34	84.00	0.05	21.46
07/28/87	1245	4.97	37.85	26.83	83.90	0.05	22.05
07/28/87	1300	8.67	50.96	10.42	84.30	0.05	21.34
07/28/87	1315	5.99	40.33	27.57	84.80	0.05	21.21
07/28/87	1330	5.91	78.30	16.27	84.60	0.05	21.00

RMA METEOROLOGICAL DATA  
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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
07/28/87	1345	5.87	63.14	22.53	85.90	0.05	20.92
07/28/87	1400	4.35	24.23	39.41	86.10	0.05	20.89
07/28/87	1415	6.49	1.08	23.68	86.00	0.05	20.89
07/28/87	1430	4.30	74.80	31.09	87.70	0.05	20.82
07/28/87	1445	5.60	71.40	18.57	88.00	0.05	20.91
07/28/87	1500	5.32	28.62	46.81	88.10	0.05	20.86
07/28/87	1515	5.16	53.16	55.11	88.60	0.05	20.86
07/28/87	1530	6.11	29.42	11.16	89.00	0.05	20.99
07/28/87	1545	3.97	39.83	15.10	90.40	0.05	22.85
07/28/87	1600	7.64	338.30	21.35	89.80	0.05	24.75
07/28/87	1615	8.33	330.80	9.59	89.70	0.05	24.75
07/28/87	1630	7.37	335.00	29.51	89.80	0.05	24.75
07/28/87	1645	4.00	25.37	43.31	92.80	0.05	24.74
07/28/87	1700	3.65	73.00	59.02	92.20	0.05	24.74
07/28/87	1715	7.19	305.30	17.47	91.60	0.05	24.74
07/28/87	1730	6.56	297.10	17.07	91.30	0.05	24.74
07/28/87	1745	7.54	280.60	9.59	89.70	0.05	24.71
07/28/87	1800	7.78	289.10	7.28	89.80	0.05	23.85
07/28/87	1815	10.61	281.50	13.55	89.20	0.05	22.78
07/28/87	1830	21.13	263.10	3.75	87.00	0.05	22.89
07/28/87	1845	18.48	264.10	4.09	86.30	0.05	22.72
07/28/87	1900	16.26	265.90	5.25	85.70	0.05	22.20
07/28/87	1915	13.82	238.90	15.89	86.10	0.05	21.75
07/28/87	1930	16.66	172.60	4.43	83.10	0.05	22.51
07/28/87	1945	23.50	185.20	6.01	81.00	0.05	23.47
07/28/87	2000	21.30	165.40	5.60	79.40	0.05	23.59
07/28/87	2015	17.77	169.80	7.17	76.30	0.05	23.76
07/28/87	2030	11.29	157.70	7.93	74.80	0.05	23.89
07/28/87	2045	16.85	159.40	6.77	73.40	0.05	24.22
07/28/87	2100	9.49	155.10	7.11	71.90	0.06	24.82
07/28/87	2115	12.70	177.90	2.05	70.70	0.08	24.82
07/28/87	2130	11.63	149.60	3.22	71.90	0.09	24.80
07/28/87	2145	4.99	350.40	12.19	72.10	0.09	24.79
07/28/87	2200	2.93	340.10	14.24	78.80	0.09	24.77
07/28/87	2215	9.03	242.20	5.96	72.80	0.09	24.76
07/28/87	2230	10.55	247.80	3.22	71.70	0.09	24.76
07/28/87	2245	9.06	259.70	5.96	71.20	0.09	24.76
07/28/87	2300	7.94	273.80	7.12	71.90	0.09	24.75
07/28/87	2315	7.76	297.10	41.64	71.60	0.09	24.76
07/28/87	2330	8.41	349.40	5.14	72.80	0.09	24.77
07/28/87	2345	7.08	336.80	3.63	74.10	0.09	24.78
07/29/87	0	5.42	334.60	3.97	74.80	0.09	24.78
07/29/87	15	2.90	9.62	2.81	74.50	0.09	24.78
07/29/87	30	3.13	17.57	12.19	74.00	0.09	24.78
07/29/87	45	3.42	103.30	29.45	72.20	0.09	24.78
07/29/87	100	4.47	160.30	5.14	73.00	0.09	24.78



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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
07/29/87	115	8.16	179.20	1.64	71.90	0.09	24.78
07/29/87	130	6.97	188.60	3.22	69.47	0.09	24.78
07/29/87	145	7.02	191.00	1.64	69.48	0.09	24.78
07/29/87	200	7.64	190.00	2.40	69.02	0.09	24.78
07/29/87	215	7.16	190.20	2.40	68.60	0.09	24.78
07/29/87	230	6.14	199.80	3.56	68.39	0.09	24.78
07/29/87	245	7.28	202.30	2.74	67.88	0.09	24.78
07/29/87	300	7.48	194.80	1.58	67.33	0.09	24.78
07/29/87	315	6.55	198.50	3.56	67.33	0.09	24.78
07/29/87	330	7.10	196.40	1.58	67.10	0.09	24.78
07/29/87	345	6.49	199.80	1.99	67.03	0.09	24.78
07/29/87	400	7.22	189.60	2.33	66.92	0.09	24.78
07/29/87	415	7.95	184.70	2.74	66.93	0.09	24.78
07/29/87	430	7.11	179.90	1.58	66.85	0.09	24.78
07/29/87	445	5.16	157.70	3.56	65.71	0.09	24.78
07/29/87	500	5.37	162.10	2.74	65.70	0.09	24.78
07/29/87	515	6.49	181.40	1.99	66.82	0.09	24.78
07/29/87	530	7.65	189.10	1.58	66.60	0.09	24.78
07/29/87	545	6.52	178.50	3.56	66.62	0.09	24.78
07/29/87	600	7.94	182.70	1.58	66.12	0.09	24.78
07/29/87	615	7.81	186.90	2.40	65.30	0.09	24.78
07/29/87	630	6.27	194.50	2.40	63.86	0.09	24.78
07/29/87	645	6.64	196.30	2.74	64.40	0.09	24.78
07/29/87	700	7.11	197.40	1.58	64.54	0.09	24.78
07/29/87	715	5.72	200.70	1.17	64.69	0.09	24.78
07/29/87	730	5.06	200.50	1.58	64.76	0.09	24.78
07/29/87	745	5.66	200.60	1.58	64.36	0.09	24.78
07/29/87	800	5.61	192.80	1.58	64.18	0.09	24.78
07/29/87	815	5.66	184.80	4.73	64.89	0.09	24.79
07/29/87	830	3.79	180.20	1.58	64.59	0.09	24.80
07/29/87	845	5.78	186.80	2.74	64.39	0.09	24.80
07/29/87	900	4.90	197.80	2.81	64.23	0.09	24.80
07/29/87	915	4.09	199.90	5.14	65.07	0.09	24.80
07/29/87	930	4.84	193.20	6.37	66.54	0.09	24.80
07/29/87	945	5.19	201.00	4.38	67.77	0.09	24.80
07/29/87	1000	5.06	203.50	7.53	68.22	0.09	24.80
07/29/87	1015	5.52	216.60	5.21	69.18	0.09	24.80
07/29/87	1030	5.30	234.10	7.94	71.40	0.09	24.59
07/29/87	1045	4.81	253.20	10.74	73.20	0.09	24.04
07/29/87	1100	3.85	258.30	14.63	74.60	0.09	24.73
07/29/87	1115	4.67	312.90	10.38	75.40	0.09	24.71
07/29/87	1130	3.35	310.20	17.41	76.40	0.09	24.70
07/29/87	1145	2.11	299.30	57.80	78.50	0.09	24.67
07/29/87	1200	2.18	60.95	61.72	80.30	0.09	24.64
07/29/87	1215	2.97	89.60	18.20	80.60	0.09	24.60
07/29/87	1230	3.21	71.40	40.20	81.40	0.09	24.60

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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
07/29/87	1245	2.74	30.13	38.62	82.50	0.09	24.60
07/29/87	1300	3.30	62.67	28.40	83.30	0.09	24.59
07/29/87	1315	3.25	29.21	49.15	83.80	0.09	24.57
07/29/87	1330	4.36	48.12	28.38	84.20	0.09	24.56
07/29/87	1345	3.49	131.00	55.46	84.60	0.09	24.56
07/29/87	1400	4.16	52.06	24.49	85.60	0.09	24.55
07/29/87	1415	6.49	151.10	21.77	85.50	0.09	24.54
07/29/87	1430	5.59	97.80	27.21	86.40	0.09	24.53
07/29/87	1445	5.64	79.50	26.80	86.60	0.09	24.53
07/29/87	1500	7.81	84.30	21.36	87.00	0.09	24.53
07/29/87	1515	7.28	55.36	38.65	87.50	0.09	24.54
07/29/87	1530	7.31	70.30	18.58	87.30	0.09	24.52
07/29/87	1545	6.59	76.10	48.38	88.30	0.09	24.51
07/29/87	1600	6.37	82.00	40.15	89.10	0.09	24.50
07/29/87	1615	6.70	83.20	8.78	89.80	0.09	24.49
07/29/87	1630	7.04	62.82	11.16	90.10	0.09	24.49
07/29/87	1645	6.96	46.22	33.15	90.30	0.09	24.49
07/29/87	1700	4.85	41.79	25.66	92.10	0.09	24.49
07/29/87	1715	8.94	52.26	21.03	91.90	0.09	24.48
07/29/87	1730	7.06	49.26	15.52	92.70	0.09	24.48
07/29/87	1745	9.35	30.37	21.03	92.60	0.09	24.49
07/29/87	1800	9.06	33.69	16.34	91.90	0.09	24.51
07/29/87	1815	8.67	43.08	17.49	93.40	0.09	24.50
07/29/87	1830	7.47	20.22	10.82	93.20	0.09	24.50
07/29/87	1845	7.72	57.35	11.23	93.30	0.09	24.48
07/29/87	1900	8.02	41.38	18.24	92.70	0.09	24.48
07/29/87	1915	9.78	298.60	33.92	89.20	0.09	24.60
07/29/87	1930	17.19	269.90	5.25	80.40	0.11	24.72
07/29/87	1945	18.47	294.60	2.46	72.60	0.13	24.72
07/29/87	2000	14.41	305.50	4.03	73.80	0.14	24.72
07/29/87	2015	9.57	304.90	23.24	74.60	0.15	24.72
07/29/87	2030	11.48	296.40	2.73	73.40	0.19	24.72
07/29/87	2045	10.81	269.70	3.62	72.80	0.19	24.72
07/29/87	2100	5.79	259.00	28.32	74.10	0.22	24.74
07/29/87	2115	7.66	288.00	8.35	72.50	0.31	24.75
07/29/87	2130	5.45	299.50	6.36	72.10	0.31	24.75
07/29/87	2145	10.17	311.90	7.12	71.20	0.32	24.75
07/29/87	2200	9.36	322.60	5.96	70.70	0.32	24.75
07/29/87	2215	8.34	350.00	5.13	70.90	0.32	24.75
07/29/87	2230	7.63	337.50	18.90	71.30	0.32	24.75
07/29/87	2245	4.14	248.30	48.62	72.30	0.32	24.75
07/29/87	2300	3.29	171.80	21.23	72.50	0.32	24.75
07/29/87	2315	5.33	242.80	16.58	72.90	0.32	24.75
07/29/87	2330	6.05	276.60	7.12	74.10	0.32	24.76
07/29/87	2345	5.67	267.90	7.12	72.60	0.32	24.78
07/30/87	0	6.25	286.40	3.22	72.90	0.32	24.78

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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
07/30/87	15	8.45	291.20	3.97	72.40	0.32	24.79
07/30/87	30	6.75	301.60	4.38	71.60	0.32	24.79
07/30/87	45	7.05	311.60	4.38	71.30	0.32	24.79
07/30/87	100	7.04	308.40	4.73	70.40	0.32	24.79
07/30/87	115	6.24	307.10	5.55	70.90	0.32	24.79
07/30/87	130	5.17	337.50	4.38	70.90	0.32	24.79
07/30/87	145	3.30	343.60	4.38	70.40	0.32	24.79
07/30/87	200	3.27	332.50	5.89	70.20	0.32	24.79
07/30/87	215	2.99	257.60	5.55	70.30	0.32	24.79
07/30/87	230	2.93	213.40	3.97	70.50	0.32	24.78
07/30/87	245	6.44	204.80	3.15	70.30	0.32	24.78
07/30/87	300	5.55	209.00	1.17	70.90	0.32	24.78
07/30/87	315	6.40	202.30	3.56	71.50	0.32	24.78
07/30/87	330	7.65	197.10	1.17	69.32	0.32	24.78
07/30/87	345	8.42	193.50	1.99	68.23	0.32	24.78
07/30/87	400	8.09	194.40	2.40	67.41	0.32	24.78
07/30/87	415	8.60	196.50	2.40	67.69	0.32	24.78
07/30/87	430	6.58	198.90	1.65	67.04	0.32	24.78
07/30/87	445	8.69	201.10	2.06	66.84	0.32	24.78
07/30/87	500	9.47	201.00	2.81	66.80	0.32	24.78
07/30/87	515	8.77	193.20	2.06	66.46	0.32	24.78
07/30/87	530	9.25	191.90	2.40	66.30	0.32	24.78
07/30/87	545	9.80	193.50	2.40	66.34	0.32	24.78
07/30/87	600	10.19	192.10	2.81	66.28	0.32	24.78
07/30/87	615	10.05	196.10	2.40	66.12	0.32	24.78
07/30/87	630	8.56	198.70	3.56	65.37	0.32	24.78
07/30/87	645	6.24	188.70	3.56	64.91	0.32	24.78
07/30/87	700	9.62	184.10	1.23	65.48	0.32	24.78
07/30/87	715	9.99	190.10	1.99	65.48	0.32	24.78
07/30/87	730	8.90	185.00	1.58	65.29	0.32	24.77
07/30/87	745	9.05	183.00	1.99	65.31	0.32	24.77
07/30/87	800	9.62	179.10	1.17	65.49	0.32	24.77
07/30/87	815	10.15	183.40	4.32	65.51	0.32	24.77
07/30/87	830	9.24	189.00	1.58	65.71	0.32	24.77
07/30/87	845	8.42	202.10	1.58	66.02	0.32	24.78
07/30/87	900	8.00	202.40	2.81	66.67	0.32	24.78
07/30/87	915	8.27	195.90	2.81	67.25	0.32	24.79
07/30/87	930	7.48	196.10	3.63	68.17	0.32	24.80
07/30/87	945	6.97	205.30	4.45	69.71	0.32	24.80
07/30/87	1000	6.06	206.40	4.45	71.10	0.32	24.78
07/30/87	1015	5.45	201.60	6.02	72.20	0.32	24.75
07/30/87	1030	5.24	215.70	8.41	73.30	0.32	24.55
07/30/87	1045	5.47	227.70	8.75	74.10	0.32	22.97
07/30/87	1100	4.30	236.40	9.50	75.50	0.32	23.10
07/30/87	1115	4.53	241.90	16.60	76.10	0.32	24.76
07/30/87	1130	4.78	263.30	7.58	77.00	0.32	24.82

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07/30/87	1145	3.97	278.10	16.65	78.30	0.32	24.05
07/30/87	1200	5.00	311.00	22.09	78.80	0.32	22.62
07/30/87	1215	4.06	303.50	11.93	80.20	0.32	22.30
07/30/87	1230	3.70	347.20	35.02	81.50	0.32	22.86
07/30/87	1245	3.71	325.50	56.26	82.70	0.32	22.96
07/30/87	1300	2.94	311.00	46.78	83.20	0.32	22.47
07/30/87	1315	5.38	24.41	33.49	83.30	0.32	21.69
07/30/87	1330	6.05	42.73	29.95	84.20	0.32	21.32
07/30/87	1345	5.77	41.80	20.96	84.80	0.32	21.12
07/30/87	1400	6.28	32.31	27.97	85.40	0.32	21.03
07/30/87	1415	6.99	57.37	17.42	85.40	0.32	21.00
07/30/87	1430	6.93	57.70	20.56	86.20	0.32	20.96
07/30/87	1445	6.54	34.86	29.54	86.70	0.32	20.96
07/30/87	1500	5.04	55.23	39.00	87.50	0.32	20.95
07/30/87	1515	5.04	41.97	19.39	88.40	0.33	20.99
07/30/87	1530	6.95	53.90	13.95	88.90	0.33	21.06
07/30/87	1545	3.93	38.72	21.50	89.30	0.32	21.30
07/30/87	1600	5.95	92.60	11.23	89.60	0.33	22.10
07/30/87	1615	4.61	166.60	14.76	90.50	0.33	21.76
07/30/87	1630	3.92	155.90	48.85	90.90	0.33	22.21
07/30/87	1645	4.90	41.25	21.43	91.20	0.33	21.92
07/30/87	1700	5.05	22.17	49.19	91.20	0.33	21.08
07/30/87	1715	5.06	49.34	63.82	91.80	0.33	20.87
07/30/87	1730	4.46	53.66	33.61	92.90	0.33	20.88
07/30/87	1745	5.74	93.50	26.06	92.30	0.33	20.87
07/30/87	1800	6.92	42.33	36.67	92.50	0.33	21.13
07/30/87	1815	9.45	46.05	17.08	92.70	0.32	21.30
07/30/87	1830	7.75	39.03	13.14	91.80	0.32	21.86
07/30/87	1845	6.71	17.23	24.51	92.70	0.32	21.21
07/30/87	1900	5.83	46.89	38.67	93.30	0.32	20.82
07/30/87	1915	8.33	55.72	8.44	92.40	0.32	20.74
07/30/87	1930	6.91	63.84	5.31	91.20	0.32	22.16
07/30/87	1945	4.78	28.07	4.50	90.00	0.32	22.43
07/30/87	2000	4.25	350.90	6.41	89.20	0.32	22.42
07/30/87	2015	6.05	343.50	2.87	88.10	0.32	22.69
07/30/87	2030	7.41	334.20	3.27	87.50	0.32	22.72
07/30/87	2045	5.75	344.80	4.85	87.20	0.32	22.20
07/30/87	2100	5.31	347.20	7.58	86.70	0.32	22.05
07/30/87	2115	4.45	358.20	4.03	85.30	0.32	22.89
07/30/87	2130	2.78	4.03	1.23	84.80	0.32	23.11
07/30/87	2145	3.24	339.80	11.07	85.20	0.32	23.21
07/30/87	2200	3.67	289.40	28.29	83.90	0.32	23.14
07/30/87	2215	5.93	247.50	3.21	81.60	0.32	23.21
07/30/87	2230	4.90	247.80	2.46	80.60	0.32	23.29
07/30/87	2245	4.25	230.90	3.28	79.80	0.32	23.18
07/30/87	2300	4.62	207.50	5.88	77.80	0.32	23.20

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07/30/87	2315	5.58	201.10	3.21	78.90	0.32	23.07
07/30/87	2330	10.86	196.20	3.62	78.60	0.32	22.69
07/30/87	2345	9.48	198.10	3.63	78.20	0.32	22.27
07/31/87	0	7.36	218.00	1.64	78.60	0.32	21.84
07/31/87	15	10.08	227.90	3.63	77.70	0.32	21.59
07/31/87	30	14.66	264.60	3.63	77.70	0.32	21.43
07/31/87	45	12.39	293.60	2.81	75.40	0.32	21.77
07/31/87	100	10.80	321.80	5.54	74.80	0.32	22.99
07/31/87	115	11.35	331.80	4.04	76.90	0.32	22.70
07/31/87	130	9.21	341.40	3.22	78.30	0.32	22.19
07/31/87	145	8.39	344.10	5.95	77.80	0.32	21.88
07/31/87	200	9.17	349.10	5.20	76.10	0.32	21.70
07/31/87	215	9.48	322.60	5.96	74.10	0.32	21.79
07/31/87	230	7.75	307.50	4.04	72.90	0.32	23.71
07/31/87	245	6.44	293.40	4.38	71.90	0.32	24.80
07/31/87	300	4.99	276.90	4.38	72.20	0.32	24.80
07/31/87	315	3.24	236.50	6.71	71.40	0.32	24.80
07/31/87	330	4.33	211.00	4.38	71.90	0.32	24.80
07/31/87	345	3.75	208.90	3.22	71.90	0.32	24.80
07/31/87	400	5.97	196.60	1.23	71.80	0.32	24.81
07/31/87	415	7.54	182.40	7.12	70.90	0.32	24.80
07/31/87	430	5.07	132.70	3.63	68.25	0.32	24.80
07/31/87	445	6.87	148.80	4.38	68.56	0.32	24.76
07/31/87	500	7.19	168.30	4.39	69.11	0.32	24.81
07/31/87	515	5.25	186.20	1.65	67.28	0.32	24.81
07/31/87	530	5.74	204.30	62.37	67.27	0.32	24.81
07/31/87	545	3.43	342.00	25.50	65.07	0.32	24.81
07/31/87	600	3.72	91.30	10.63	63.83	0.32	24.82
07/31/87	615	4.79	142.80	3.56	66.05	0.32	24.82
07/31/87	630	5.93	170.10	5.90	66.29	0.32	24.82
07/31/87	645	4.42	154.50	15.29	64.92	0.32	24.82
07/31/87	700	4.34	173.10	6.72	65.02	0.32	24.83
07/31/87	715	4.60	180.00	12.62	64.90	0.32	24.83
07/31/87	730	3.93	185.40	3.57	63.58	0.32	24.83
07/31/87	745	6.47	191.80	1.99	64.65	0.32	24.83
07/31/87	800	7.85	193.00	1.17	65.73	0.32	24.83
07/31/87	815	7.76	193.60	1.99	66.08	0.32	24.83
07/31/87	830	9.10	202.10	1.99	66.20	0.32	24.83
07/31/87	845	9.98	200.30	2.40	66.44	0.32	24.84
07/31/87	900	9.71	204.90	2.81	67.65	0.32	24.85
07/31/87	915	10.04	206.40	3.22	68.99	0.32	24.85
07/31/87	930	10.11	210.60	2.81	69.90	0.32	24.84
07/31/87	945	10.34	215.00	3.22	70.80	0.32	24.84
07/31/87	1000	9.21	218.30	2.81	72.30	0.32	24.84
07/31/87	1015	7.58	211.80	4.86	74.10	0.32	24.08
07/31/87	1030	7.57	217.20	6.84	75.60	0.32	23.35

RMA METEOROLOGICAL DATA  
FROM STATION M1  
07/17 - 10/08, 1987

DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
07/31/87	1045	8.06	213.90	4.79	76.10	0.32	23.16
07/31/87	1100	7.53	213.80	4.78	77.50	0.32	23.19
07/31/87	1115	7.47	207.50	6.35	78.90	0.32	23.23
07/31/87	1130	6.20	214.50	6.35	80.50	0.32	23.32
07/31/87	1145	6.96	220.00	8.73	82.00	0.32	23.12
07/31/87	1200	6.32	208.00	15.08	83.50	0.32	22.99
07/31/87	1215	5.26	182.20	61.36	84.50	0.32	23.16
07/31/87	1230	5.42	177.70	11.52	84.90	0.32	23.18
07/31/87	1245	5.46	113.40	13.90	85.80	0.32	22.59
07/31/87	1300	5.75	82.50	37.39	85.90	0.32	21.63
07/31/87	1315	3.85	47.56	42.49	86.50	0.32	21.11
07/31/87	1330	2.64	0.36	22.52	87.60	0.32	22.93
07/31/87	1345	4.93	67.88	44.49	88.20	0.32	24.83
07/31/87	1400	5.03	77.90	35.84	88.20	0.32	24.82
07/31/87	1415	4.29	110.40	30.00	88.70	0.32	24.81
07/31/87	1430	6.18	126.80	18.63	88.70	0.32	24.82
07/31/87	1445	6.31	109.10	17.48	89.10	0.32	24.81
07/31/87	1500	4.44	112.10	38.70	89.50	0.32	24.81
07/31/87	1515	4.88	68.22	31.15	90.80	0.32	24.80
07/31/87	1530	5.67	136.60	54.40	90.70	0.32	24.80
07/31/87	1545	5.61	85.00	28.43	91.50	0.32	24.79
07/31/87	1600	8.55	50.10	12.37	91.30	0.32	24.79
07/31/87	1615	10.85	39.93	15.91	90.20	0.32	24.78
07/31/87	1630	10.06	33.86	13.20	90.60	0.32	24.77
07/31/87	1645	9.25	18.15	13.95	91.40	0.33	24.77
07/31/87	1700	10.28	37.34	22.18	91.60	0.33	24.76
07/31/87	1715	10.30	4.09	11.97	90.90	0.33	24.76
07/31/87	1730	8.98	342.40	5.65	90.70	0.32	24.63
07/31/87	1745	13.23	322.90	5.31	88.90	0.32	24.31
07/31/87	1800	15.99	317.80	7.29	87.20	0.32	22.21
07/31/87	1815	11.94	329.70	17.09	88.90	0.32	21.17
07/31/87	1830	9.89	348.70	11.17	88.60	0.32	21.27
07/31/87	1845	12.31	347.80	10.01	89.10	0.32	21.80
07/31/87	1900	13.77	346.30	7.22	89.20	0.32	21.00
07/31/87	1915	14.34	340.00	10.42	89.60	0.32	20.66
07/31/87	1930	14.65	334.30	6.41	87.40	0.32	20.90
07/31/87	1945	14.55	319.20	4.43	85.40	0.32	22.73
07/31/87	2000	12.48	335.10	5.18	83.60	0.32	23.34
07/31/87	2015	14.20	315.90	4.43	81.20	0.32	22.69
07/31/87	2030	12.86	311.80	4.78	79.00	0.32	22.64
07/31/87	2045	16.78	320.40	8.33	77.30	0.32	22.83
07/31/87	2100	18.34	329.90	5.19	75.40	0.32	23.04
07/31/87	2115	15.54	306.70	4.37	74.90	0.32	22.49
07/31/87	2130	14.60	334.10	9.02	70.80	0.32	23.33
07/31/87	2145	13.74	333.20	7.18	69.90	0.32	23.40
07/31/87	2200	12.37	291.40	5.95	69.96	0.32	22.85

RMA METEOROLOGICAL DATA  
FROM STATION M1  
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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
07/31/87	2215	12.80	303.50	2.81	69.52	0.32	22.45
07/31/87	2230	12.66	300.30	3.22	70.00	0.32	22.09
07/31/87	2245	13.55	304.30	7.12	70.50	0.32	21.76
07/31/87	2300	13.08	313.40	4.38	70.30	0.32	21.56
07/31/87	2315	10.50	326.30	6.37	69.92	0.32	21.42
07/31/87	2330	7.28	347.20	9.52	70.20	0.32	21.39
07/31/87	2345	4.42	352.10	5.96	69.65	0.32	21.25
08/01/87	0	4.43	264.00	5.55	69.84	0.32	21.18
08/01/87	15	7.51	204.40	5.55	69.13	0.33	21.84
08/01/87	30	4.54	143.20	29.86	68.01	0.35	22.70
08/01/87	45	3.05	79.30	15.75	67.16	0.35	22.67
08/01/87	100	4.14	103.40	6.71	67.27	0.35	22.33
08/01/87	115	5.75	168.20	3.15	67.09	0.35	22.09
08/01/87	130	8.18	166.60	5.89	67.77	0.35	21.86
08/01/87	145	3.72	156.30	9.46	67.65	0.35	21.74
08/01/87	200	2.77	231.20	4.38	68.36	0.36	21.97
08/01/87	215	2.63	246.90	9.04	67.42	0.36	22.04
08/01/87	230	3.35	323.20	30.63	66.85	0.36	21.91
08/01/87	245	5.25	34.45	3.98	64.67	0.36	23.80
08/01/87	300	4.43	43.43	8.29	64.26	0.36	24.78
08/01/87	315	2.18	237.00	5.55	66.66	0.36	22.68
08/01/87	330	2.70	137.30	7.13	65.84	0.36	21.84
08/01/87	345	6.37	183.60	1.65	67.73	0.36	21.85
08/01/87	400	7.28	181.50	2.81	68.04	0.36	21.76
08/01/87	415	5.60	197.30	1.99	66.33	0.36	21.58
08/01/87	430	5.39	200.10	2.40	66.09	0.36	21.55
08/01/87	445	6.61	204.60	1.58	66.69	0.36	21.52
08/01/87	500	7.04	209.60	1.40	66.89	0.36	21.52
08/01/87	515	8.01	212.30	3.15	66.45	0.36	21.68
08/01/87	530	6.41	212.30	2.74	65.53	0.36	21.75
08/01/87	545	5.22	198.20	1.99	65.06	0.36	21.52
08/01/87	600	6.10	190.80	1.23	65.31	0.36	21.64
08/01/87	615	7.40	185.10	1.99	65.14	0.36	21.60
08/01/87	630	6.52	185.80	1.99	65.13	0.36	21.50
08/01/87	645	7.64	190.40	2.40	65.47	0.36	21.53
08/01/87	700	6.69	189.20	2.74	65.04	0.36	21.54
08/01/87	715	7.80	193.00	2.74	65.08	0.36	21.46
08/01/87	730	7.40	191.60	4.32	65.17	0.36	21.48
08/01/87	745	8.53	186.10	1.58	64.93	0.36	21.49
08/01/87	800	8.20	193.90	1.99	64.89	0.36	21.88
08/01/87	815	9.74	202.70	1.58	64.96	0.36	21.97
08/01/87	830	10.76	218.30	2.40	65.48	0.36	21.98
08/01/87	845	9.07	214.50	2.40	64.96	0.36	21.91
08/01/87	900	8.02	213.50	2.74	65.11	0.36	22.10
08/01/87	915	8.11	201.80	3.15	66.13	0.36	23.42
08/01/87	930	9.05	203.30	3.22	67.37	0.36	22.07

RMA METEOROLOGICAL DATA  
FROM STATION M1  
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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
08/01/87	945	8.01	212.90	2.81	68.21	0.36	21.99
08/01/87	1000	8.02	213.30	3.63	68.27	0.36	21.50
08/01/87	1015	7.18	206.70	3.63	69.24	0.36	21.35
08/01/87	1030	8.13	209.30	2.81	69.92	0.36	21.26
08/01/87	1045	8.18	213.00	3.63	70.80	0.36	21.23
08/01/87	1100	8.31	216.80	5.20	73.20	0.36	22.65
08/01/87	1115	8.27	220.20	8.34	75.30	0.36	24.36
08/01/87	1130	7.06	223.10	11.48	76.80	0.36	24.13
08/01/87	1145	6.07	225.50	7.99	77.50	0.36	22.45
08/01/87	1200	5.40	228.80	14.69	78.40	0.36	21.97
08/01/87	1215	5.93	245.60	9.56	80.20	0.36	22.70
08/01/87	1230	5.29	246.20	11.47	81.90	0.36	22.93
08/01/87	1245	4.45	221.70	38.95	82.60	0.36	22.62
08/01/87	1300	4.81	227.60	22.50	83.50	0.36	22.88
08/01/87	1315	5.34	257.70	25.21	83.90	0.36	22.29
08/01/87	1330	5.20	293.20	58.23	84.60	0.36	21.89
08/01/87	1345	8.44	39.21	27.98	84.70	0.36	21.58
08/01/87	1400	4.77	1.28	61.35	85.30	0.36	21.21
08/01/87	1415	5.81	283.70	11.57	85.20	0.36	21.16
08/01/87	1430	5.21	331.50	22.59	85.70	0.36	21.27
08/01/87	1445	6.11	328.60	17.48	85.80	0.36	21.26
08/01/87	1500	6.92	329.50	10.81	86.80	0.36	22.29
08/01/87	1515	4.71	353.30	62.56	87.00	0.36	21.23
08/01/87	1530	5.42	326.30	21.42	86.40	0.36	20.86
08/01/87	1545	7.11	335.90	23.74	86.10	0.36	21.14
08/01/87	1600	4.74	352.00	38.65	85.90	0.36	22.24
08/01/87	1615	6.77	345.50	13.54	87.60	0.36	21.33
08/01/87	1630	6.23	354.40	23.75	87.50	0.36	21.39
08/01/87	1645	6.41	5.92	17.83	88.60	0.36	20.97
08/01/87	1700	9.44	329.00	18.58	88.00	0.36	20.87
08/01/87	1715	5.74	15.65	52.34	88.90	0.36	20.68
08/01/87	1730	7.84	331.00	21.37	88.50	0.36	20.60
08/01/87	1745	7.32	352.30	25.66	88.80	0.36	20.51
08/01/87	1800	6.59	306.00	20.96	89.40	0.36	20.50
08/01/87	1815	4.95	316.80	32.74	89.50	0.36	20.45
08/01/87	1830	6.93	33.11	19.40	89.90	0.36	20.42
08/01/87	1845	5.52	57.32	36.28	89.60	0.36	20.45
08/01/87	1900	6.40	23.95	21.38	89.60	0.36	20.42
08/01/87	1915	3.39	284.70	39.43	89.50	0.36	20.45
08/01/87	1930	4.64	48.81	12.74	89.50	0.36	20.42
08/01/87	945	4.18	34.05	19.83	90.20	0.36	20.44
08/01/87	2000	2.35	80.70	36.25	90.50	0.36	20.20
08/01/87	2015	2.25	98.10	16.70	88.50	0.36	20.32
08/01/87	2030	2.49	320.20	4.43	87.30	0.36	21.97
08/01/87	2045	2.58	274.80	19.37	89.20	0.36	21.28
08/01/87	2100	4.71	242.50	15.08	88.90	0.36	20.67



RMA METEOROLOGICAL DATA  
FROM STATION M1  
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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
08/01/87	2115	9.06	205.70	4.84	86.70	0.36	20.49
08/01/87	2130	12.15	209.70	4.03	84.20	0.36	22.67
08/01/87	2145	10.14	201.90	3.21	83.30	0.36	22.71
08/01/87	2200	10.43	196.20	3.21	82.10	0.36	22.84
08/01/87	2215	10.84	201.10	3.62	81.00	0.36	22.95
08/01/87	2230	12.68	195.90	2.80	79.70	0.36	22.94
08/01/87	2245	15.03	193.60	3.21	79.20	0.36	22.83
08/01/87	2300	15.39	195.90	2.80	79.10	0.36	22.34
08/01/87	2315	11.08	196.80	3.21	78.10	0.36	22.59
08/01/87	2330	11.44	201.70	2.74	77.50	0.36	22.73
08/01/87	2345	9.71	202.00	3.15	76.70	0.36	22.74
08/02/87	0	9.40	191.80	1.98	75.80	0.36	22.98
08/02/87	15	11.69	187.00	3.21	76.00	0.36	22.65
08/02/87	30	11.47	188.70	2.05	75.70	0.36	22.21
08/02/87	45	11.88	185.30	2.81	75.10	0.36	22.20
08/02/87	100	11.46	188.00	2.46	74.90	0.36	22.27
08/02/87	115	10.99	188.90	2.81	74.60	0.36	22.27
08/02/87	130	11.19	196.70	2.87	74.50	0.36	22.20
08/02/87	145	11.60	197.90	2.05	74.30	0.36	22.00
08/02/87	200	10.84	198.30	2.46	73.90	0.36	22.02
08/02/87	215	9.95	197.40	3.22	73.00	0.36	22.35
08/02/87	230	8.90	182.00	2.81	72.10	0.36	22.64
08/02/87	245	8.30	192.40	2.05	71.40	0.36	22.83
08/02/87	300	10.17	198.00	2.05	71.00	0.36	22.75
08/02/87	315	11.14	194.70	2.81	71.10	0.36	22.23
08/02/87	330	9.90	197.60	2.46	70.80	0.36	21.84
08/02/87	345	8.59	196.40	2.81	70.40	0.36	21.97
08/02/87	400	8.20	196.20	2.40	70.00	0.36	22.34
08/02/87	415	9.51	191.90	2.40	69.91	0.36	22.23
08/02/87	430	8.63	192.70	2.40	69.59	0.36	21.87
08/02/87	445	6.80	189.40	3.63	68.46	0.36	22.23
08/02/87	500	5.47	183.30	9.52	67.43	0.36	22.57
08/02/87	515	6.49	196.20	2.40	67.40	0.36	22.56
08/02/87	530	5.82	195.00	5.89	66.74	0.36	22.41
08/02/87	545	8.03	176.20	3.98	67.54	0.36	22.28
08/02/87	600	6.28	185.80	4.73	66.85	0.36	22.18
08/02/87	615	7.76	199.90	2.74	66.72	0.36	22.24
08/02/87	630	7.74	176.00	5.89	66.47	0.36	21.92
08/02/87	645	7.96	181.50	2.40	66.95	0.36	21.88
08/02/87	700	7.68	197.60	4.39	66.99	0.36	21.83
08/02/87	715	6.28	206.30	6.72	66.62	0.36	21.85
08/02/87	730	4.77	208.10	8.29	65.75	0.36	21.86
08/02/87	745	5.66	209.90	2.74	65.91	0.36	21.64
08/02/87	800	6.76	189.40	2.40	65.73	0.36	21.85
08/02/87	815	7.71	181.30	7.47	66.60	0.36	21.80
08/02/87	830	7.49	198.20	1.99	66.13	0.36	21.60

RMA METEOROLOGICAL DATA  
FROM STATION M1  
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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
08/02/87	845	6.52	194.90	1.99	65.53	0.36	21.86
08/02/87	900	6.26	215.60	2.74	66.13	0.36	22.19
08/02/87	915	5.19	214.00	5.55	67.18	0.36	22.47
08/02/87	930	5.82	214.80	5.55	68.67	0.36	22.53
08/02/87	945	7.26	196.80	6.78	69.89	0.36	22.60
08/02/87	1000	7.28	211.20	5.95	71.50	0.36	22.77
08/02/87	1015	7.55	212.00	8.76	72.60	0.36	22.94
08/02/87	1030	7.22	207.60	9.50	73.50	0.36	23.01
08/02/87	1045	7.03	231.90	7.59	74.50	0.36	23.08
08/02/87	1100	5.61	253.80	12.23	75.60	0.36	23.31
08/02/87	1115	4.07	258.50	20.55	76.90	0.36	23.39
08/02/87	1130	3.08	274.00	20.47	78.80	0.36	23.40
08/02/87	1145	2.86	338.90	22.51	80.00	0.36	23.00
08/02/87	1200	3.58	355.60	40.49	81.30	0.36	22.44
08/02/87	1215	2.57	314.00	40.54	83.20	0.36	22.59
08/02/87	1230	2.77	245.70	13.96	83.50	0.36	23.29
08/02/87	1245	3.73	202.30	41.38	84.40	0.36	22.26
08/02/87	1300	5.15	164.40	44.51	84.70	0.36	21.47
08/02/87	1315	4.69	181.90	25.65	85.70	0.36	21.11
08/02/87	1330	4.29	250.60	21.02	86.60	0.36	21.11
08/02/87	1345	3.95	253.30	15.92	87.30	0.36	21.69
08/02/87	1400	4.12	248.50	32.77	88.00	0.36	22.33
08/02/87	1415	5.05	169.60	26.10	88.40	0.36	24.61
08/02/87	1430	5.21	194.20	39.02	89.10	0.36	24.63
08/02/87	1445	6.28	81.40	37.87	89.70	0.36	24.62
08/02/87	1500	4.30	42.56	38.27	91.00	0.36	24.62
08/02/87	1515	3.86	221.60	10.47	90.90	0.36	24.62
08/02/87	1530	4.65	279.70	61.38	91.60	0.36	24.70
08/02/87	1545	3.79	181.50	67.70	92.30	0.36	24.77
08/02/87	1600	3.95	80.30	46.89	92.40	0.36	24.78
08/02/87	1615	5.65	123.10	49.21	91.50	0.36	24.77
08/02/87	1630	4.59	120.10	17.47	90.90	0.36	24.76
08/02/87	1645	5.58	52.84	18.29	93.50	0.36	24.76
08/02/87	1700	6.72	50.17	34.68	91.40	0.36	24.76
08/02/87	1715	4.43	313.50	35.50	92.30	0.36	24.76
08/02/87	1730	3.63	346.30	24.49	90.70	0.36	24.75
08/02/87	1745	2.32	156.20	24.84	91.30	0.36	24.73
08/02/87	1800	4.85	274.80	22.53	90.40	0.36	24.62
08/02/87	1815	4.76	278.90	17.09	91.80	0.36	23.52
08/02/87	1830	5.77	294.30	32.40	93.10	0.36	22.04
08/02/87	1845	4.42	135.80	26.41	93.00	0.36	21.89
08/02/87	1900	6.26	145.90	16.27	91.60	0.36	21.33
08/02/87	1915	9.84	181.60	8.78	90.50	0.36	22.18
08/02/87	1930	9.35	192.50	6.88	91.30	0.36	21.75
08/02/87	1945	13.88	211.30	6.00	89.50	0.36	20.77
08/02/87	2000	16.82	214.80	3.27	87.10	0.36	22.46

RMA METEOROLOGICAL DATA  
FROM STATION M1  
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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
08/02/87	2015	18.90	209.10	3.27	85.70	0.36	23.43
08/02/87	2030	18.27	213.60	3.62	85.20	0.36	22.37
08/02/87	2045	23.52	203.90	3.27	84.40	0.36	21.41
08/02/87	2100	23.05	202.90	3.62	82.40	0.36	22.62
08/02/87	2115	20.01	206.00	3.21	81.80	0.36	22.61
08/02/87	2130	18.99	202.90	4.03	81.80	0.36	21.97
08/02/87	2145	18.12	195.50	3.21	81.20	0.36	21.47
08/02/87	2200	17.51	190.00	3.21	80.70	0.36	23.23
08/02/87	2215	15.98	187.00	2.80	80.70	0.36	24.75
08/02/87	2230	15.99	188.00	3.96	81.00	0.36	24.75
08/02/87	2245	16.33	187.00	3.96	80.50	0.36	24.75
08/02/87	2300	15.41	184.50	3.62	79.60	0.36	24.76
08/02/87	2315	13.04	188.60	3.21	78.50	0.36	24.75
08/02/87	2330	16.43	181.10	4.03	77.70	0.36	24.76
08/02/87	2345	15.55	181.30	3.56	76.80	0.36	24.77
08/03/87	0	16.73	182.30	3.21	75.90	0.36	24.77
08/03/87	15	14.09	183.00	2.74	75.00	0.36	24.77
08/03/87	30	11.59	173.00	3.63	74.20	0.36	24.77
08/03/87	45	9.85	177.00	4.04	73.80	0.36	24.21
08/03/87	100	9.36	176.80	4.04	73.50	0.36	22.41
08/03/87	115	6.18	181.80	4.45	72.50	0.36	22.65
08/03/87	130	6.01	182.40	7.19	72.00	0.36	22.68
08/03/87	145	7.70	173.30	3.22	71.90	0.36	22.33
08/03/87	200	6.47	191.30	2.46	71.30	0.36	21.95
08/03/87	215	7.19	200.00	2.46	71.50	0.36	21.65
08/03/87	230	7.36	217.10	8.35	71.30	0.36	21.35
08/03/87	245	7.76	239.80	4.04	70.70	0.36	21.26
08/03/87	300	7.39	219.00	2.81	71.10	0.36	21.10
08/03/87	315	6.70	226.50	4.04	70.90	0.36	20.98
08/03/87	330	6.42	236.00	7.53	71.00	0.36	21.05
08/03/87	345	6.87	202.90	2.05	71.20	0.36	21.23
08/03/87	400	6.63	197.10	4.38	72.30	0.36	21.13
08/03/87	415	6.25	236.50	4.79	73.20	0.36	20.82
08/03/87	430	5.94	204.90	6.37	72.60	0.36	20.69
08/03/87	445	5.28	207.90	13.42	72.80	0.36	20.61
08/03/87	500	4.71	213.00	3.22	73.40	0.36	20.56
08/03/87	515	4.34	213.40	5.55	73.40	0.36	20.50
08/03/87	530	2.25	184.20	13.83	72.40	0.36	20.47
08/03/87	545	5.65	114.50	10.34	71.10	0.36	20.60
08/03/87	600	2.73	140.20	36.15	71.00	0.36	21.59
08/03/87	615	3.20	195.00	7.53	71.90	0.36	22.13
08/03/87	630	4.53	179.00	3.22	72.60	0.36	21.84
08/03/87	645	6.79	154.40	7.53	73.30	0.36	21.42
08/03/87	700	4.86	154.20	33.36	70.20	0.36	21.08
08/03/87	715	4.02	250.50	9.04	70.00	0.36	20.97
08/03/87	730	2.99	233.40	12.60	70.60	0.36	21.46

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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
08/03/87	745	4.00	312.80	21.23	70.70	0.36	21.84
08/03/87	800	2.53	36.09	39.25	69.27	0.36	22.18
08/03/87	815	2.98	30.40	7.12	69.10	0.36	22.36
08/03/87	830	2.45	20.53	14.59	69.35	0.36	22.01
08/03/87	845	2.85	357.50	7.54	71.50	0.36	21.58
08/03/87	900	4.18	340.50	4.73	69.92	0.36	21.27
08/03/87	915	4.38	333.80	9.11	69.56	0.36	21.40
08/03/87	930	7.50	334.60	4.79	71.00	0.36	22.23
08/03/87	945	8.27	339.50	6.78	71.10	0.36	21.62
08/03/87	1000	6.86	349.40	7.94	71.30	0.36	21.34
08/03/87	1015	8.89	352.60	12.19	70.50	0.36	21.39
08/03/87	1030	9.96	8.65	7.53	70.20	0.36	22.12
08/03/87	1045	7.69	16.15	9.92	70.10	0.36	21.68
08/03/87	1100	7.69	352.90	14.23	70.30	0.36	21.54
08/03/87	1115	8.36	3.00	13.82	71.30	0.36	22.78
08/03/87	1130	8.74	10.21	11.83	71.20	0.36	22.04
08/12/87	1030	6.96	346.50	60.19	59.06	0.00	24.59
08/12/87	1045	4.77	1.45	16.93	59.99	0.00	24.88
08/12/87	1100	3.25	39.77	16.18	38.76	0.00	24.22
08/12/87	1115	6.33	34.00	15.35	60.85	0.00	24.88
08/12/87	1130	6.60	48.70	11.79	60.75	0.00	24.89
08/12/87	1145	6.82	38.98	12.61	60.73	0.00	24.90
08/12/87	1200	10.24	46.95	6.30	60.68	0.00	24.90
08/12/87	1215	9.72	38.10	8.70	60.92	0.00	24.89
08/12/87	1230	8.69	42.55	7.54	61.66	0.00	24.89
08/12/87	1245	8.04	47.80	8.29	62.17	0.00	24.89
08/12/87	1300	6.93	36.88	7.54	62.64	0.00	24.89
08/12/87	1315	5.19	21.11	15.00	62.69	0.00	24.89
08/12/87	1330	5.17	33.64	19.73	64.38	0.00	24.89
08/12/87	1345	4.68	17.07	18.14	64.63	0.00	24.89
08/12/87	1400	5.94	11.16	11.50	64.74	0.00	24.89
08/12/87	1415	5.54	0.99	15.40	65.22	0.00	24.89
08/12/87	1430	5.29	16.03	18.14	64.95	0.00	24.89
08/12/87	1445	4.97	30.57	18.96	65.83	0.00	24.88
08/12/87	1500	5.75	18.29	9.51	64.65	0.00	24.87
08/12/87	1515	8.44	46.47	8.76	64.31	0.00	24.87
08/12/87	1530	7.67	44.46	8.76	64.58	0.00	24.88
08/12/87	1545	5.38	60.44	21.36	65.63	0.00	24.87
08/12/87	1600	4.88	59.89	31.96	66.32	0.00	24.87
08/12/87	1615	3.18	17.30	14.30	66.11	0.00	24.87
08/12/87	1630	4.58	33.10	24.37	65.87	0.00	24.85
08/12/87	1645	6.01	51.56	39.35	66.10	0.00	24.85
08/12/87	1700	8.37	57.29	13.89	66.53	0.00	24.84
08/12/87	1715	8.35	50.16	9.99	67.01	0.00	24.84
08/12/87	1730	8.71	67.32	22.85	67.92	0.00	24.83
08/12/87	1745	7.58	73.00	16.56	66.79	0.00	24.83

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FROM STATION M1  
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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
08/12/87	1800	7.91	82.00	8.41	66.81	0.00	24.83
08/12/87	1815	8.85	85.90	13.82	67.69	0.00	24.82
08/12/87	1830	7.56	102.30	17.38	68.29	0.00	24.82
08/12/87	1845	8.49	123.60	22.91	69.14	0.00	24.82
08/12/87	1900	7.87	94.70	17.72	68.82	0.00	24.81
08/12/87	1915	8.86	100.20	16.96	69.23	0.00	24.81
08/12/87	1930	7.88	136.60	11.15	69.09	0.00	24.80
08/12/87	1945	6.17	134.00	10.33	70.10	0.00	24.81
08/12/87	2000	5.57	156.00	20.11	69.67	0.00	24.81
08/12/87	2015	6.92	141.50	16.62	70.20	0.00	24.81
08/12/87	2030	5.60	125.70	9.92	70.40	0.00	24.80
08/12/87	2045	7.21	118.60	9.17	69.79	0.00	24.80
08/12/87	2100	6.11	125.60	7.53	69.69	0.00	24.80
08/12/87	2115	6.11	126.50	6.43	69.51	0.00	24.79
08/12/87	2130	4.60	118.60	3.22	68.64	0.00	24.80
08/12/87	2145	4.93	118.10	3.22	68.30	0.00	24.80
08/12/87	2200	5.28	123.50	0.89	67.81	0.00	24.80
08/12/87	2215	6.64	135.80	2.81	66.94	0.00	24.80
08/12/87	2230	7.76	134.00	2.81	66.11	0.00	24.80
08/12/87	2245	8.09	123.90	3.22	65.48	0.00	24.80
08/12/87	2300	7.97	130.80	5.14	64.12	0.00	24.80
08/12/87	2315	7.86	133.30	4.38	63.07	0.00	24.80
08/12/87	2330	7.60	147.70	1.99	62.41	0.00	24.81
08/12/87	2345	8.37	150.40	1.58	61.92	0.00	24.81
08/13/87	0	9.66	157.70	2.40	61.98	0.00	24.81
08/13/87	15	9.27	156.20	2.74	61.39	0.00	24.81
08/13/87	30	9.38	157.30	2.74	61.32	0.00	24.80
08/13/87	45	8.85	149.40	2.74	60.66	0.00	24.80
08/13/87	100	8.84	147.20	3.15	59.53	0.00	24.80
08/13/87	115	8.14	149.50	2.40	59.22	0.00	24.80
08/13/87	130	8.58	161.80	3.15	58.96	0.00	24.79
08/13/87	145	7.33	181.10	3.91	60.09	0.00	24.77
08/13/87	200	7.43	193.10	1.99	60.66	0.00	24.77
08/13/87	215	7.22	187.40	2.33	59.98	0.00	24.77
08/13/87	230	7.05	178.40	3.98	59.72	0.00	24.77
08/13/87	245	5.94	172.20	1.99	59.62	0.00	24.77
08/13/87	300	6.18	175.80	2.74	59.39	0.00	24.76
08/13/87	315	7.45	181.50	2.74	59.61	0.00	24.76
08/13/87	330	7.54	174.30	1.58	59.90	0.00	24.76
08/13/87	345	8.25	180.30	1.99	59.60	0.00	24.75
08/13/87	400	5.52	194.30	2.33	59.07	0.00	24.75
08/13/87	415	3.64	226.10	6.31	58.16	0.00	24.74
08/13/87	430	3.65	213.80	53.73	57.39	0.00	24.74
08/13/87	445	2.70	233.80	8.23	56.49	0.00	24.74
08/13/87	500	2.38	241.90	14.55	56.62	0.00	24.74
08/13/87	515	4.43	309.70	10.57	55.59	0.00	24.74

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08/13/87	530	3.07	343.90	10.23	55.18	0.00	24.74
08/13/87	545	3.83	348.00	3.16	54.18	0.00	24.74
08/13/87	600	2.49	6.68	4.67	52.97	0.00	24.74
08/13/87	615	2.43	23.36	12.15	52.41	0.00	24.74
08/13/87	630	3.22	345.20	2.75	52.43	0.00	24.73
08/13/87	645	3.64	344.80	14.14	51.52	0.00	24.73
08/13/87	700	3.33	340.60	12.15	52.15	0.00	24.73
08/13/87	715	2.71	319.20	9.41	52.59	0.00	24.73
08/13/87	730	4.26	336.50	6.25	53.11	0.00	24.73
08/13/87	745	5.89	323.10	10.23	53.27	0.00	24.73
08/13/87	800	6.57	325.30	5.49	53.17	0.00	24.73
08/13/87	815	5.96	314.10	7.48	53.32	0.00	24.73
08/13/87	830	4.81	306.10	8.24	53.59	0.00	24.73
08/13/87	845	4.06	322.70	4.74	53.77	0.00	24.74
08/13/87	900	2.70	318.30	16.47	54.00	0.00	24.75
08/13/87	915	2.18	257.60	29.79	54.33	0.00	24.75
08/13/87	930	1.79	294.50	27.04	54.30	0.00	24.75
08/13/87	945	1.37	214.70	7.48	54.38	0.00	24.75
08/13/87	1000	3.69	236.00	12.56	54.28	0.00	24.75
08/13/87	1015	3.91	237.10	28.54	54.55	0.00	24.75
08/13/87	1030	3.16	213.50	12.97	54.76	0.00	24.74
08/13/87	1045	4.38	222.80	18.04	55.03	0.00	24.74
08/13/87	1100	3.42	212.10	19.68	56.08	0.00	24.74
08/13/87	1115	2.98	219.60	8.71	57.91	0.00	24.74
08/13/87	1130	3.75	206.20	12.20	59.18	0.00	24.73
08/13/87	1145	3.44	192.50	14.18	61.29	0.00	24.73
08/13/87	1200	2.57	203.60	23.98	63.27	0.00	24.73
08/13/87	1215	3.18	180.10	15.00	64.71	0.00	24.72
08/13/87	1230	2.97	211.30	18.90	66.22	0.00	24.72
08/13/87	1245	1.26	246.60	42.85	68.96	0.00	24.71
08/13/87	1300	1.77	239.80	51.81	71.00	0.00	23.88
08/13/87	1315	2.10	293.50	21.61	73.50	0.00	24.15
08/13/87	1330	2.05	100.80	27.55	75.20	0.00	21.85
08/13/87	1345	2.87	23.39	29.17	77.20	0.00	22.22
08/13/87	1400	3.85	44.50	27.18	80.60	0.00	24.00
08/13/87	1415	5.41	72.40	29.55	81.70	0.00	24.66
08/13/87	1430	7.54	60.66	14.73	83.00	0.00	24.64
08/13/87	1445	8.56	69.70	15.47	83.20	0.00	24.64
08/13/87	1500	8.93	58.89	12.75	83.50	0.00	24.64
08/13/87	1515	10.01	60.58	11.59	84.80	0.00	24.64
08/13/87	1530	11.26	75.80	22.97	85.10	0.00	24.62
08/13/87	1545	10.80	90.80	8.04	85.10	0.00	24.63
08/13/87	1600	5.57	107.30	23.37	85.70	0.00	24.62
08/13/87	1615	7.60	98.40	17.45	85.20	0.00	24.63
08/13/87	1630	9.62	94.00	9.61	84.80	0.00	24.63
08/13/87	1645	7.86	67.22	15.48	84.10	0.00	24.51

RMA METEOROLOGICAL DATA  
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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
08/13/87	1700	6.67	35.56	11.53	83.60	0.00	24.23
08/13/87	1715	16.10	313.50	9.55	79.50	0.00	24.43
08/13/87	1730	20.15	292.70	4.44	76.00	0.00	24.63
08/13/87	1745	18.26	290.50	4.03	75.00	0.00	24.65
08/13/87	1800	13.11	290.60	5.19	74.30	0.00	24.65
08/13/87	1815	11.86	293.40	4.44	74.40	0.00	24.66
08/13/87	1830	12.53	282.90	7.59	74.00	0.00	24.25
08/13/87	1845	13.34	223.90	5.95	73.10	0.00	23.43
08/13/87	1900	18.73	197.10	3.21	67.23	0.02	24.71
08/13/87	1915	12.02	214.20	4.79	65.65	0.03	24.72
08/13/87	1930	8.66	243.60	6.37	67.02	0.03	24.72
08/13/87	1945	9.80	243.00	3.22	67.67	0.03	24.70
08/13/87	2000	10.66	229.40	5.20	68.98	0.03	24.68
08/13/87	2015	10.05	222.50	12.66	71.70	0.03	24.67
08/13/87	2030	8.03	208.00	4.45	72.10	0.03	24.66
08/13/87	2045	8.79	183.10	5.61	71.40	0.03	24.65
08/13/87	2100	9.34	165.50	6.37	70.00	0.03	24.65
08/13/87	2115	8.32	200.50	6.37	70.70	0.03	24.64
08/13/87	2130	10.67	218.20	2.05	69.95	0.03	24.64
08/13/87	2145	11.70	219.30	2.81	69.17	0.03	24.64
08/13/87	2200	11.07	209.20	1.64	68.26	0.03	24.64
08/13/87	2215	11.21	204.20	2.05	67.42	0.03	24.65
08/13/87	2230	9.84	203.80	3.27	66.68	0.03	24.65
08/13/87	2245	8.89	185.40	2.40	65.86	0.03	24.66
08/13/87	2300	9.25	145.10	9.04	65.15	0.03	24.66
08/13/87	2315	10.30	124.30	4.73	66.05	0.03	24.66
08/13/87	2330	8.99	122.60	3.97	63.54	0.03	24.66
08/13/87	2345	9.27	139.00	5.14	62.77	0.03	24.66
08/14/87	0	9.98	141.60	5.14	62.86	0.03	24.66
08/14/87	15	9.43	125.00	3.15	62.58	0.03	24.66
08/14/87	30	9.28	143.70	18.03	63.50	0.03	24.66
08/14/87	45	9.06	145.50	5.48	62.88	0.03	24.67
08/14/87	100	9.22	162.70	7.13	62.58	0.03	24.67
08/14/87	115	6.44	184.20	3.56	62.17	0.03	24.67
08/14/87	130	6.28	160.90	3.98	62.17	0.03	24.68
08/14/87	145	7.45	173.80	2.40	63.31	0.03	24.68
08/14/87	200	8.17	181.00	3.15	61.42	0.03	24.68
08/14/87	215	4.58	297.30	23.18	58.47	0.03	24.68
08/14/87	230	4.09	217.90	9.88	59.73	0.03	24.68
08/14/87	245	5.70	227.20	7.13	59.91	0.03	24.68
08/14/87	300	6.95	235.10	5.49	61.00	0.03	24.68
08/14/87	315	8.55	202.50	4.73	61.12	0.03	24.68
08/14/87	330	8.01	184.90	3.16	59.92	0.03	24.68
08/14/87	345	5.21	192.20	6.31	59.57	0.03	24.68
08/14/87	400	6.11	215.80	7.48	60.03	0.03	24.68
08/14/87	415	5.69	228.80	5.14	59.69	0.03	24.67

RMA METEOROLOGICAL DATA  
FROM STATION M1  
07/17 - 10/08, 1987

DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
08/14/87	430	6.61	219.60	1.99	59.39	0.03	24.67
08/14/87	445	5.06	210.70	5.14	60.12	0.03	24.67
08/14/87	500	2.88	92.00	24.29	58.49	0.03	24.67
08/14/87	515	2.09	155.70	14.96	59.85	0.03	24.67
08/14/87	530	3.17	149.20	34.10	60.50	0.03	24.67
08/14/87	545	3.28	144.10	4.74	59.27	0.03	24.66
08/14/87	600	6.31	202.30	3.91	61.29	0.03	24.66
08/14/87	615	6.09	223.60	8.99	59.35	0.03	24.66
08/14/87	630	7.47	217.00	6.25	58.19	0.03	24.66
08/14/87	645	9.21	216.20	1.58	59.94	0.03	24.66
08/14/87	700	9.95	216.00	2.33	60.52	0.03	24.66
08/14/87	715	5.95	207.70	5.08	59.54	0.03	24.66
08/14/87	730	6.79	198.70	1.58	59.11	0.03	24.66
08/14/87	745	8.97	199.00	1.58	60.78	0.03	24.66
08/14/87	800	7.72	193.30	4.67	59.66	0.03	24.66
08/14/87	815	5.69	232.70	3.16	56.83	0.03	24.66
08/14/87	830	7.93	241.50	6.25	57.65	0.03	24.66
08/14/87	845	5.74	243.60	4.32	58.29	0.03	24.66
08/14/87	900	5.17	215.10	7.07	57.37	0.03	24.66
08/14/87	915	2.66	214.80	12.97	58.50	0.03	24.66
08/14/87	930	5.96	220.40	4.39	60.33	0.03	24.65
08/14/87	945	8.34	212.70	5.14	62.91	0.03	24.65
08/14/87	1000	9.42	224.10	5.96	64.64	0.03	24.65
08/14/87	1015	10.20	220.00	5.96	66.37	0.03	24.65
08/14/87	1030	9.38	241.80	8.35	67.87	0.03	24.65
08/14/87	1045	8.95	228.90	5.95	67.81	0.03	24.67
08/14/87	1100	7.26	214.40	7.94	69.83	0.03	24.67
08/14/87	1115	6.82	224.20	8.34	70.90	0.03	24.66
08/14/87	1130	5.42	233.10	7.93	72.20	0.03	24.66
08/14/87	1145	5.99	198.10	14.62	73.40	0.03	24.65
08/14/87	1200	7.95	188.70	11.88	74.50	0.03	24.65
08/14/87	1215	7.06	201.10	19.39	76.00	0.03	24.65
08/14/87	1230	5.71	216.70	27.57	77.60	0.03	24.65
08/14/87	1245	5.64	232.90	15.07	78.30	0.03	24.65
08/14/87	1300	5.65	253.30	19.43	79.10	0.03	24.65
08/14/87	1315	6.24	222.90	17.45	80.10	0.03	24.64
08/14/87	1330	7.54	219.00	14.31	80.30	0.03	24.64
08/14/87	1345	7.06	210.30	24.87	80.30	0.03	24.64
08/14/87	1400	8.09	207.50	31.13	81.40	0.03	24.63
08/14/87	1415	6.78	197.50	52.38	81.30	0.03	24.63
08/14/87	1430	6.73	233.90	30.79	82.30	0.03	24.62
08/14/87	1445	3.96	151.50	24.11	83.10	0.03	24.62
08/14/87	1500	6.87	273.20	27.64	83.50	0.03	24.62
08/14/87	1515	8.29	220.50	48.81	82.60	0.03	24.62
08/14/87	1530	4.58	11.59	26.08	83.30	0.03	24.61
08/14/87	1545	4.13	10.09	57.93	84.80	0.03	24.61



RMA METEOROLOGICAL DATA  
FROM STATION M1  
07/17 - 10/08, 1987

DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
08/14/87	1600	5.25	24.57	21.72	84.70	0.03	24.61
08/14/87	1615	6.38	55.77	15.93	85.70	0.03	24.60
08/14/87	1630	6.92	149.70	28.46	85.50	0.03	24.60
08/14/87	1645	4.97	205.70	56.72	85.30	0.03	24.60
08/14/87	1700	6.53	173.10	8.38	84.60	0.03	24.60
08/14/87	1715	7.06	205.90	9.60	84.10	0.03	24.60
08/14/87	1730	5.49	210.20	17.85	84.30	0.03	24.60
08/14/87	1745	2.62	359.80	42.19	86.00	0.03	24.60
08/14/87	1800	4.48	60.34	16.29	85.00	0.03	24.60
08/14/87	1815	4.77	78.00	28.77	84.80	0.03	24.59
08/14/87	1830	4.93	93.90	26.80	85.30	0.03	24.58
08/14/87	1845	4.99	129.70	36.22	85.80	0.03	24.58
08/14/87	1900	4.18	209.50	22.51	85.00	0.03	24.59
08/14/87	1915	7.21	206.30	9.55	85.10	0.03	24.59
08/14/87	1930	6.83	202.30	6.01	85.60	0.03	24.59
08/14/87	1945	6.43	216.60	8.81	86.10	0.03	24.59
08/14/87	2000	5.60	240.40	7.24	86.80	0.03	24.58
08/14/87	2015	3.92	230.40	16.66	86.80	0.03	24.59
08/14/87	2030	4.54	215.40	7.24	86.00	0.03	24.59
08/14/87	2045	4.85	208.00	10.38	86.10	0.03	24.58
08/14/87	2100	2.82	214.60	26.76	86.40	0.03	24.58
08/14/87	2115	2.52	1.26	24.45	84.10	0.03	24.57
08/14/87	2130	2.17	25.61	35.04	81.10	0.03	24.57
08/14/87	2145	4.57	94.50	4.03	80.10	0.03	24.58
08/14/87	2200	8.16	91.20	9.09	80.30	0.03	24.58
08/14/87	2215	5.67	97.20	11.08	79.30	0.03	24.58
08/14/87	2230	4.84	104.80	23.18	78.50	0.03	24.58
08/14/87	2245	3.46	146.10	14.98	77.00	0.03	24.58
08/14/87	2300	7.07	162.90	5.13	78.50	0.03	24.59
08/14/87	2315	10.68	182.30	2.74	75.20	0.03	24.60
08/14/87	2330	10.14	199.50	3.22	73.50	0.03	24.59
08/14/87	2345	6.30	208.40	3.63	72.20	0.03	24.60
08/15/87	0	6.44	211.10	4.79	71.00	0.03	24.61
08/15/87	15	8.86	206.30	6.37	71.10	0.03	24.61
08/15/87	30	9.82	218.10	2.46	70.30	0.03	24.62
08/15/87	45	9.18	219.10	6.78	71.50	0.03	24.62
08/15/87	100	8.29	218.60	6.78	71.10	0.03	24.62
08/15/87	115	9.09	195.40	2.47	70.10	0.03	24.62
08/15/87	130	7.40	207.50	3.22	68.11	0.03	24.62
08/15/87	145	8.40	216.00	1.64	69.17	0.03	24.62
08/15/87	200	8.50	211.90	4.80	66.99	0.03	24.61
08/15/87	215	9.15	202.00	2.06	67.50	0.03	23.76
08/15/87	230	8.62	203.20	3.63	66.93	0.03	21.55
08/15/87	245	10.26	199.10	2.40	66.82	0.03	21.45
08/15/87	300	9.85	199.80	1.65	67.39	0.03	21.27
08/15/87	315	8.61	204.20	4.04	66.58	0.03	21.26

RMA METEOROLOGICAL DATA  
FROM STATION M1  
07/17 - 10/08, 1987

DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
08/15/87	330	7.17	206.30	3.98	65.13	0.03	21.80
08/15/87	345	9.37	185.50	1.65	66.36	0.03	23.65
08/15/87	400	5.44	209.20	8.71	64.13	0.03	24.64
08/15/87	415	8.68	183.40	1.23	64.38	0.03	24.64
08/15/87	430	11.13	186.80	2.40	65.41	0.03	24.64
08/15/87	445	9.24	195.60	2.81	65.58	0.03	24.64
08/15/87	500	10.02	204.30	7.13	65.64	0.03	24.64
08/15/87	515	10.59	209.90	1.99	64.36	0.03	24.64
08/15/87	530	9.86	199.30	2.74	64.74	0.03	24.64
08/15/87	545	9.33	199.70	2.40	65.34	0.03	24.64
08/15/87	600	7.67	202.10	1.58	64.92	0.03	24.64
08/15/87	615	10.87	201.50	1.58	65.78	0.03	24.64
08/15/87	630	10.76	192.10	3.57	64.14	0.03	24.64
08/15/87	645	10.52	182.70	1.99	63.94	0.03	24.64
08/15/87	700	11.11	184.60	1.99	63.66	0.03	24.64
08/15/87	715	11.95	196.70	1.99	64.62	0.03	24.64
08/15/87	730	10.64	203.20	3.15	63.77	0.03	24.64
08/15/87	745	10.03	192.60	1.58	62.36	0.03	24.64
08/15/87	800	10.26	190.70	2.40	62.82	0.03	24.64
08/15/87	815	9.99	182.50	1.99	62.03	0.03	24.65
08/15/87	830	12.04	191.30	1.99	63.14	0.03	24.66
08/15/87	845	11.85	194.50	3.57	63.59	0.03	24.66
08/15/87	900	10.80	201.00	3.15	64.67	0.03	24.65
08/15/87	915	11.39	190.10	2.81	65.93	0.03	24.66
08/15/87	930	12.37	194.40	2.40	67.15	0.03	24.66
08/15/87	945	13.46	195.80	3.22	68.75	0.03	24.66
08/15/87	1000	13.83	198.20	3.22	70.30	0.03	24.66
08/15/87	1015	13.39	201.30	4.79	71.20	0.03	24.66
08/15/87	1030	12.59	197.50	5.13	72.30	0.03	24.66
08/15/87	1045	11.65	198.00	4.38	73.20	0.03	24.66
08/15/87	1100	10.20	205.60	5.95	74.80	0.03	24.06
08/15/87	1115	8.01	218.90	11.48	76.70	0.03	24.30
08/15/87	1130	7.58	213.80	8.40	77.50	0.03	24.66
08/15/87	1145	6.70	237.60	11.95	78.50	0.03	24.27
08/15/87	1200	5.19	238.60	9.21	79.60	0.03	24.45
08/15/87	1215	5.85	230.80	18.62	80.20	0.03	24.66
08/15/87	1230	5.42	236.00	43.35	80.80	0.03	24.66
08/15/87	1245	4.59	245.80	42.93	81.50	0.03	24.66
08/15/87	1300	2.82	227.40	66.88	83.20	0.03	24.53
08/15/87	1315	5.50	215.10	61.41	82.40	0.03	24.22
08/15/87	1330	5.96	184.60	48.20	82.50	0.03	24.07
08/15/87	1345	8.04	171.70	29.61	83.10	0.03	24.03
08/15/87	1400	6.41	177.40	23.35	83.50	0.03	23.99
08/15/87	1415	5.36	219.30	13.95	84.70	0.03	23.99
08/15/87	1430	7.92	191.50	9.60	83.40	0.03	23.90
08/15/87	1445	8.74	173.00	13.95	83.90	0.03	23.89

RMA METEOROLOGICAL DATA  
FROM STATION M1  
07/17 - 10/08, 1987

DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
08/15/87	1500	7.36	206.00	13.95	85.20	0.03	23.64
08/15/87	1515	7.29	129.70	22.19	85.00	0.03	23.27
08/15/87	1530	6.99	157.30	32.40	85.70	0.03	23.18
08/15/87	1545	5.85	203.90	19.06	86.20	0.03	23.08
08/15/87	1600	6.32	227.60	19.87	86.20	0.03	22.96
08/15/87	1615	5.77	235.00	26.82	87.30	0.03	22.96
08/15/87	1630	8.99	140.30	13.14	87.30	0.03	22.96
08/15/87	1645	7.80	143.90	36.69	87.90	0.03	22.91
08/15/87	1700	11.55	90.10	41.39	87.30	0.03	22.91
08/15/87	1715	13.57	105.00	8.03	88.10	0.03	22.93
08/15/87	1730	18.27	91.30	4.15	86.20	0.03	22.54
08/15/87	1745	17.66	88.40	9.20	85.90	0.03	21.83
08/15/87	1800	17.42	87.20	7.63	85.00	0.03	21.74
08/15/87	1815	15.47	81.90	5.25	84.80	0.03	21.75
08/15/87	1830	14.53	89.20	6.00	85.70	0.03	21.03
08/15/87	1845	16.20	81.60	6.00	85.00	0.03	20.47
08/15/87	1900	16.05	75.30	6.01	84.40	0.03	21.53
08/15/87	1915	18.22	76.70	5.60	84.20	0.03	21.57
08/15/87	1930	19.94	72.20	5.60	83.60	0.03	21.65
08/15/87	1945	15.27	66.18	6.35	83.60	0.03	21.48
08/15/87	2000	17.83	63.24	7.58	84.60	0.03	20.86
08/15/87	2015	15.94	53.53	5.19	83.40	0.03	20.36
08/15/87	2030	14.66	38.88	11.48	82.40	0.03	21.34
08/15/87	2045	9.06	354.20	4.78	79.30	0.03	22.62
08/15/87	2100	9.18	9.15	3.62	79.40	0.03	24.20
08/15/87	2115	12.32	18.13	3.62	79.20	0.03	24.52
08/15/87	2130	13.54	24.28	2.80	78.60	0.03	24.55
08/15/87	2145	11.12	23.71	3.97	77.30	0.03	24.57
08/15/87	2200	6.21	10.17	5.54	75.60	0.03	24.59
08/15/87	2215	10.24	22.93	2.81	75.40	0.03	24.62
08/15/87	2230	11.72	29.61	3.15	75.00	0.03	24.63
08/15/87	2245	15.28	36.98	3.56	75.80	0.03	24.64
08/15/87	2300	14.90	23.56	11.43	74.80	0.03	24.66
08/15/87	2315	21.67	22.96	5.54	69.32	0.03	24.67
08/15/87	2330	20.58	25.61	5.61	65.21	0.03	24.70
08/15/87	2345	11.69	13.33	5.61	63.03	0.03	24.69
08/16/87	0	7.31	356.60	22.87	62.38	0.03	22.41
08/16/87	15	11.10	357.30	7.19	62.53	0.03	22.07
08/16/87	30	7.84	32.03	5.96	61.72	0.03	22.03
08/16/87	45	7.96	84.90	7.13	61.18	0.03	22.10
08/16/87	100	10.85	103.40	19.74	60.78	0.03	22.26
08/16/87	115	5.78	82.20	7.95	59.82	0.03	22.65
08/16/87	130	5.63	119.40	10.62	58.20	0.03	24.61
08/16/87	145	7.70	173.60	14.19	58.29	0.03	24.79
08/16/87	200	9.77	112.40	3.56	57.94	0.03	24.79
08/16/87	215	6.23	183.10	10.63	56.90	0.03	24.79

RMA METEOROLOGICAL DATA  
FROM STATION M1  
07/17 - 10/08, 1987

DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
08/16/87	230	9.53	247.10	3.57	56.50	0.03	24.82
08/16/87	245	5.88	149.20	9.06	57.12	0.03	24.82
08/16/87	300	9.92	137.40	3.57	56.29	0.03	24.82
08/16/87	315	9.97	160.60	7.89	56.32	0.03	24.80
08/16/87	330	8.09	181.40	4.73	56.73	0.03	24.80
08/16/87	345	4.72	287.80	12.14	56.62	0.03	24.80
08/16/87	400	5.91	252.20	10.98	57.49	0.03	24.81
08/16/87	415	4.83	223.40	3.16	57.35	0.03	24.81
08/16/87	430	4.93	218.10	2.75	57.63	0.03	24.81
08/16/87	445	5.14	211.60	5.49	57.18	0.03	24.81
08/16/87	500	5.81	195.30	2.75	58.95	0.03	24.81
08/16/87	515	8.67	182.00	1.58	59.13	0.03	24.81
08/16/87	530	9.33	172.20	4.67	58.91	0.03	24.81
08/16/87	545	11.97	168.00	3.50	56.47	0.03	24.81
08/16/87	600	10.95	175.70	2.75	55.64	0.03	24.81
08/16/87	615	9.28	182.20	2.75	55.11	0.03	24.81
08/16/87	630	7.39	184.10	5.49	55.03	0.03	24.81
08/16/87	645	6.72	168.60	6.66	54.47	0.03	24.81
08/16/87	700	7.38	175.90	3.09	54.03	0.03	24.81
08/16/87	715	3.03	116.10	21.97	51.96	0.03	24.81
08/16/87	730	5.78	198.10	11.74	53.29	0.03	24.81
08/16/87	745	8.61	187.60	16.82	56.59	0.03	24.81
08/16/87	800	8.56	201.40	3.09	56.19	0.03	24.81
08/16/87	815	8.13	208.40	9.41	56.77	0.03	24.81
08/16/87	830	7.43	206.20	7.07	55.94	0.03	24.82
08/16/87	845	7.85	200.40	12.91	55.94	0.03	24.82
08/16/87	900	9.25	223.50	3.91	57.10	0.03	24.84
08/16/87	915	8.88	225.70	3.57	59.93	0.03	24.83
08/16/87	930	6.78	195.40	39.65	60.41	0.03	24.83
08/16/87	945	4.03	120.60	18.03	61.57	0.03	24.83
08/16/87	1000	2.82	183.90	44.00	64.94	0.03	24.71
08/16/87	1015	2.19	209.20	40.88	67.72	0.03	24.06
08/16/87	1030	5.12	287.30	7.12	69.77	0.03	24.10
08/16/87	1045	6.17	290.90	14.98	69.64	0.03	24.83
08/16/87	1100	3.20	349.30	15.79	70.30	0.03	24.83
08/16/87	1115	4.95	45.87	15.03	71.10	0.03	24.84
08/16/87	1130	2.61	77.10	53.48	73.00	0.03	24.81
08/16/87	1145	5.80	80.90	32.70	72.30	0.03	22.59
08/16/87	1200	3.32	44.16	53.09	74.50	0.03	22.25
08/16/87	1215	5.08	246.20	57.50	74.90	0.03	24.83
08/16/87	1230	5.84	241.30	9.21	74.90	0.03	24.83
08/16/87	1245	4.71	222.60	22.56	75.30	0.03	24.83
08/16/87	1300	5.00	297.30	40.96	76.00	0.03	24.83
08/16/87	1315	4.28	244.50	33.52	76.70	0.03	24.83
08/16/87	1330	6.05	248.60	27.18	77.20	0.03	24.82
08/16/87	1345	7.44	244.80	8.45	77.80	0.03	24.81

RMA METEOROLOGICAL DATA  
FROM STATION M1  
07/17 - 10/08, 1987

DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
08/16/87	1400	6.45	231.10	18.60	77.80	0.03	24.81
08/16/87	1415	9.56	182.10	11.58	77.40	0.03	24.80
08/16/87	1430	5.59	177.30	23.37	79.80	0.03	24.80
08/16/87	1445	6.79	210.80	22.14	79.30	0.03	24.80
08/16/87	1500	5.90	283.50	43.12	80.30	0.03	24.80
08/16/87	1515	5.76	272.50	20.57	81.10	0.03	24.78
08/16/87	1530	6.19	246.60	19.41	81.60	0.03	24.78
08/16/87	1545	4.71	228.40	72.70	82.30	0.03	24.78
08/16/87	1600	7.69	32.59	12.73	82.30	0.03	24.78
08/16/87	1615	6.30	13.29	32.35	82.80	0.03	24.78
08/16/87	1630	6.96	5.40	19.82	82.90	0.03	24.78
08/16/87	1645	7.21	331.90	10.83	82.90	0.03	24.77
08/16/87	1700	4.98	6.68	20.23	83.60	0.03	24.77
08/16/87	1715	4.69	203.30	44.54	84.70	0.03	24.77
08/16/87	1730	4.26	255.80	41.82	85.00	0.03	24.76
08/16/87	1745	6.89	271.90	13.15	85.00	0.03	24.75
08/16/87	1800	3.87	253.90	20.64	85.00	0.03	24.75
08/16/87	1815	6.71	298.20	15.87	85.10	0.03	24.75
08/16/87	1830	5.92	284.50	40.20	85.60	0.03	24.75
08/16/87	1845	5.28	327.00	15.47	85.70	0.03	24.75
08/16/87	1900	5.16	293.00	24.12	86.50	0.03	24.74
08/16/87	1915	5.64	290.40	22.96	85.70	0.03	24.75
08/16/87	1930	6.99	320.40	10.77	85.60	0.03	24.75
08/16/87	1945	6.75	330.20	12.75	85.50	0.03	24.75
08/16/87	2000	6.69	321.90	10.70	85.20	0.03	24.76
08/16/87	2015	5.57	329.30	4.84	85.20	0.03	24.75
08/16/87	2030	4.56	319.80	34.65	85.20	0.03	24.76
08/16/87	2045	4.80	359.80	4.09	84.70	0.03	24.75
08/16/87	2100	3.14	8.25	4.85	84.00	0.03	24.75
08/16/87	2115	4.06	4.10	13.45	82.70	0.03	24.75
08/16/87	2130	6.48	28.40	3.21	80.40	0.03	24.76
08/16/87	2145	5.04	20.56	4.03	79.10	0.03	24.76
08/16/87	2200	4.66	29.24	9.09	78.00	0.03	24.77
08/16/87	2215	4.26	37.45	2.80	74.30	0.03	24.28
08/16/87	2230	5.03	45.56	8.28	74.70	0.03	23.62
08/16/87	2245	6.58	57.17	4.38	73.90	0.03	23.30
08/16/87	2300	4.15	53.75	12.59	73.30	0.03	23.14
08/16/87	2315	3.97	354.40	26.29	71.80	0.03	23.23
08/16/87	2330	4.18	22.76	9.52	70.60	0.03	23.00
08/16/87	2345	3.07	40.06	37.25	69.38	0.03	22.89
08/17/87	0	2.86	342.30	19.32	68.78	0.03	23.00
08/17/87	15	2.96	350.00	25.14	69.91	0.03	22.94
08/17/87	30	3.60	308.70	20.08	68.49	0.03	22.99
08/17/87	45	5.09	318.80	10.69	69.10	0.03	24.29
08/17/87	100	4.51	341.90	16.59	68.94	0.03	24.79
08/17/87	115	5.49	334.80	11.72	67.51	0.03	24.78

RMA METEOROLOGICAL DATA  
FROM STATION M1  
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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
08/17/87	130	7.71	309.90	8.71	65.61	0.03	24.81
08/17/87	145	7.85	311.00	4.73	65.50	0.03	24.82
08/17/87	200	9.02	324.30	5.55	66.62	0.03	24.82
08/17/87	215	7.96	316.40	6.72	67.55	0.03	24.82
08/17/87	230	8.46	307.50	1.58	64.78	0.03	24.82
08/17/87	245	6.92	288.60	14.20	64.16	0.03	24.83
08/17/87	300	3.27	255.80	33.34	61.86	0.03	24.85
08/17/87	315	3.68	44.01	18.04	61.44	0.03	24.85
08/17/87	330	2.80	343.00	8.65	64.23	0.03	24.85
08/17/87	345	3.89	345.70	3.16	65.63	0.03	24.85
08/17/87	400	4.44	325.70	16.12	65.15	0.03	24.85
08/17/87	415	4.85	229.20	9.47	63.76	0.03	24.85
08/17/87	430	4.24	294.30	3.16	64.35	0.03	24.85
08/17/87	445	6.75	304.30	3.57	64.71	0.03	24.85
08/17/87	500	4.92	309.50	3.16	63.95	0.03	24.85
08/17/87	515	6.28	315.60	4.32	63.95	0.03	24.85
08/17/87	530	5.74	327.60	3.57	63.14	0.03	24.85
08/17/87	545	7.86	338.10	1.99	61.86	0.03	24.86
08/17/87	600	8.63	332.90	1.99	60.95	0.03	24.87
08/17/87	615	7.91	327.30	2.33	60.77	0.03	24.87
08/17/87	630	4.16	327.70	6.25	60.03	0.03	24.87
08/17/87	645	2.73	356.40	10.23	58.64	0.03	24.88
08/17/87	700	3.91	324.70	4.67	58.26	0.03	24.89
08/17/87	715	6.53	306.20	4.67	59.76	0.03	24.90
08/17/87	730	3.92	300.80	26.63	60.14	0.03	24.90
08/17/87	745	1.65	38.76	35.63	59.96	0.03	24.90
08/17/87	800	3.90	135.60	11.33	61.18	0.03	24.90
08/17/87	815	7.13	164.50	12.49	61.28	0.03	24.90
08/17/87	830	7.51	197.50	5.08	58.52	0.03	24.90
08/17/87	845	6.18	201.20	4.67	58.41	0.03	24.91
08/17/87	900	7.30	208.00	3.16	58.33	0.03	24.92
08/17/87	915	6.38	214.40	6.66	59.54	0.03	24.92
08/17/87	930	5.39	220.60	5.90	61.04	0.03	24.92
08/17/87	945	5.72	219.20	12.61	62.65	0.03	24.91
08/17/87	1000	6.08	215.60	4.38	64.25	0.03	24.71
08/17/87	1015	6.48	217.90	4.79	66.15	0.03	24.29
08/17/87	1030	7.41	204.10	6.02	67.44	0.03	24.66
08/17/87	1045	9.02	207.60	4.79	67.95	0.03	23.75
08/17/87	1100	9.55	208.60	12.24	68.56	0.03	23.78
08/17/87	1115	9.04	211.80	10.32	69.30	0.03	24.59
08/17/87	1130	9.44	206.20	12.24	70.40	0.03	24.64
08/17/87	1145	8.77	194.20	9.16	71.30	0.03	24.89
08/17/87	1200	8.16	188.10	18.17	72.20	0.03	24.84
08/17/87	1215	8.98	179.60	9.56	72.70	0.03	23.97
08/17/87	1230	8.87	172.00	13.52	74.30	0.03	23.86
08/17/87	1245	9.34	163.10	6.83	75.10	0.03	23.66

RMA METEOROLOGICAL DATA  
FROM STATION M1  
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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
08/17/87	1300	8.94	176.10	13.92	76.50	0.03	23.65
08/17/87	1315	9.60	183.00	7.64	77.30	0.03	23.97
08/17/87	1330	7.83	182.50	8.05	78.60	0.03	23.69
08/17/87	1345	7.66	169.50	21.00	79.80	0.03	23.66
08/17/87	1400	7.69	180.90	17.86	80.40	0.03	24.80
08/17/87	1415	5.36	123.20	42.93	81.00	0.03	24.86
08/17/87	1430	7.27	202.30	21.39	81.40	0.03	24.85
08/17/87	1445	4.82	274.00	76.30	82.60	0.03	24.85
08/17/87	1500	4.47	162.50	23.77	83.90	0.03	24.84
08/17/87	1515	6.51	206.50	48.42	83.30	0.03	24.84
08/17/87	1530	4.45	296.90	55.90	85.00	0.03	24.84
08/17/87	1545	4.88	295.60	58.67	84.90	0.03	24.83
08/17/87	1600	5.68	291.30	40.57	85.50	0.03	24.81
08/17/87	1615	5.07	197.80	28.79	85.80	0.03	24.81
08/17/87	1630	6.80	251.00	24.84	86.00	0.03	24.80
08/17/87	1645	4.25	186.70	26.07	87.10	0.03	24.80
08/17/87	1700	9.91	226.20	22.94	87.00	0.03	24.79
08/17/87	1715	5.88	216.40	35.47	87.50	0.03	24.78
08/17/87	1730	8.21	223.00	33.16	87.90	0.03	24.78
08/17/87	1745	5.98	252.30	11.58	88.60	0.03	24.78
08/17/87	1800	7.77	286.00	23.70	87.50	0.03	24.78
08/17/87	1815	6.87	238.10	19.82	87.60	0.03	24.78
08/17/87	1830	5.56	293.30	73.50	87.80	0.03	24.78
08/17/87	1845	3.27	252.90	26.44	90.70	0.03	24.78
08/17/87	1900	5.36	251.40	35.50	88.20	0.03	24.77
08/17/87	1915	6.14	294.60	20.18	87.30	0.03	24.78
08/17/87	1930	7.99	347.10	5.66	87.20	0.03	24.78
08/17/87	1945	9.46	46.54	14.32	87.50	0.03	24.78
08/17/87	2000	10.67	29.63	10.78	87.40	0.03	24.78
08/17/87	2015	11.58	30.87	6.41	86.70	0.03	24.78
08/17/87	2030	12.65	22.14	7.98	86.00	0.03	24.79
08/17/87	2045	8.59	53.15	25.18	86.70	0.03	24.78
08/17/87	2100	12.68	37.56	6.42	85.70	0.03	24.78
08/17/87	2115	12.09	44.26	6.01	83.80	0.03	24.79
08/17/87	2130	10.10	52.56	6.83	81.10	0.03	24.79
08/17/87	2145	9.10	69.31	7.92	81.10	0.03	24.79
08/17/87	2200	5.26	40.33	11.07	79.20	0.03	24.81
08/17/87	2215	4.02	2.60	20.92	77.90	0.03	24.81
08/17/87	2230	4.76	90.40	3.21	77.60	0.03	24.81
08/17/87	2245	3.02	76.80	11.49	76.30	0.03	24.83
08/17/87	2300	2.38	48.26	24.77	75.20	0.03	24.81
08/17/87	2315	2.97	54.05	5.20	74.50	0.03	23.53
08/17/87	2330	5.69	68.85	4.04	74.40	0.03	24.55
08/17/87	2345	7.26	75.60	4.79	72.40	0.03	24.82
08/18/87	0	7.27	83.50	5.96	70.40	0.03	24.82
08/18/87	15	7.00	103.00	2.81	68.93	0.03	24.82

RMA METEOROLOGICAL DATA  
FROM STATION M1  
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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
08/18/87	30	8.84	64.19	7.53	67.92	0.03	24.78
08/18/87	45	9.15	55.12	5.21	68.07	0.03	24.73
08/18/87	100	6.89	59.63	4.04	67.30	0.03	24.68
08/18/87	115	7.12	67.36	3.63	66.72	0.03	24.65
08/18/87	130	8.04	63.43	2.81	65.65	0.03	24.51
08/18/87	145	10.07	49.16	4.38	65.65	0.03	23.12
08/18/87	200	9.44	29.02	5.14	66.95	0.03	22.85
08/18/87	215	6.96	357.90	4.80	66.98	0.03	22.69
08/18/87	230	8.53	354.10	7.54	66.19	0.03	22.65
08/18/87	245	11.62	337.70	2.81	64.80	0.03	22.65
08/18/87	300	9.93	341.00	2.40	63.34	0.03	23.06
08/18/87	315	9.29	343.50	5.14	62.58	0.03	23.22
08/18/87	330	9.76	341.80	3.98	61.70	0.03	23.29
08/18/87	345	9.60	339.80	5.90	60.49	0.03	23.41
08/18/87	400	9.16	344.40	3.98	59.51	0.03	23.96
08/18/87	415	7.91	340.10	8.30	58.73	0.03	24.99
08/18/87	430	6.73	342.80	1.99	57.85	0.03	24.99
08/18/87	445	5.59	345.40	6.31	57.55	0.03	25.00
08/18/87	500	4.52	348.70	3.91	56.47	0.03	25.00
08/18/87	515	6.40	340.70	2.74	56.39	0.03	25.00
08/18/87	530	4.92	345.60	6.25	55.71	0.03	25.00
08/18/87	545	3.45	345.30	1.58	55.42	0.03	25.01
08/18/87	600	2.42	352.70	9.81	54.96	0.03	25.02
08/18/87	615	3.02	342.80	11.74	54.05	0.03	25.02
08/18/87	630	3.73	334.20	7.83	54.21	0.03	25.02
08/18/87	645	3.98	333.80	5.08	54.11	0.03	25.03
08/18/87	700	3.90	316.70	1.51	53.74	0.03	25.03
08/18/87	715	3.43	309.00	5.08	53.28	0.03	25.04
08/18/87	730	3.06	298.60	3.91	53.06	0.03	25.04
08/18/87	745	3.08	304.30	2.68	53.26	0.03	25.05
08/18/87	800	3.53	309.60	6.25	53.26	0.03	25.05
08/18/87	815	3.90	329.50	3.09	53.23	0.03	25.06
08/18/87	830	4.52	336.10	1.51	53.39	0.03	25.07
08/18/87	845	4.23	340.30	5.08	53.29	0.03	25.07
08/18/87	900	5.40	338.30	0.76	53.43	0.03	25.08
08/18/87	915	4.25	338.40	7.42	53.72	0.03	25.08
08/18/87	930	5.00	344.30	4.67	54.95	0.03	25.08
08/18/87	945	4.69	351.60	10.98	55.26	0.03	25.08
08/18/87	1000	5.39	349.70	8.24	55.21	0.03	25.08
08/18/87	1015	4.10	8.88	12.15	55.36	0.03	25.08
08/18/87	1030	4.22	30.15	11.05	55.57	0.03	25.08
08/18/87	1045	4.59	30.33	14.96	55.56	0.03	25.08
08/18/87	1100	2.64	22.13	32.58	55.87	0.03	25.08
08/18/87	1115	2.63	45.56	24.01	57.11	0.03	25.08
08/18/87	1130	3.42	76.30	17.76	58.20	0.03	25.08
08/18/87	1145	4.31	33.41	11.86	58.17	0.03	25.08



RMA METEOROLOGICAL DATA  
FROM STATION M1  
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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
08/18/87	1200	3.88	47.13	13.08	59.37	0.03	25.07
08/18/87	1215	3.29	57.13	67.57	60.86	0.03	25.07
08/18/87	1230	4.61	57.01	25.11	61.20	0.03	24.55
08/18/87	1245	4.38	71.70	50.27	61.65	0.03	24.20
08/18/87	1300	3.89	86.80	46.48	63.23	0.03	24.13
08/18/87	1315	4.39	56.32	30.68	63.20	0.03	24.08
08/18/87	1330	6.17	123.30	16.19	63.17	0.03	24.02
08/18/87	1345	5.41	185.80	53.48	64.17	0.03	23.96
08/18/87	1400	5.47	197.30	38.17	65.25	0.03	24.11
08/18/87	1415	5.57	101.70	22.87	65.97	0.03	24.17
08/18/87	1430	5.60	91.10	53.46	66.84	0.03	24.12
08/18/87	1445	6.40	94.00	30.31	67.77	0.03	24.04
08/18/87	1500	7.52	96.90	23.28	67.75	0.03	23.95
08/18/87	1515	6.91	114.70	25.19	69.17	0.03	23.89
08/18/87	1530	6.04	166.00	70.70	70.40	0.03	24.08
08/18/87	1545	5.69	170.00	18.97	70.50	0.03	24.42
08/18/87	1600	6.92	125.00	15.08	71.70	0.03	24.27
08/18/87	1615	7.09	122.80	17.06	71.70	0.03	24.01
08/18/87	1630	6.37	105.30	24.09	72.90	0.03	23.87
08/18/87	1645	6.29	132.30	22.93	73.50	0.03	23.87
08/18/87	1700	5.72	159.70	57.06	74.30	0.03	23.87
08/18/87	1715	6.88	141.60	29.21	75.50	0.03	24.03
08/18/87	1730	5.87	116.70	28.80	76.30	0.03	23.96
08/18/87	1745	6.31	112.60	15.08	77.10	0.03	23.75
08/18/87	1800	6.18	114.60	29.61	77.60	0.03	23.64
08/18/87	1815	5.78	122.00	20.61	78.50	0.03	23.53
08/18/87	1830	4.70	138.30	44.08	79.40	0.03	23.51
08/18/87	1845	6.16	88.80	28.80	79.20	0.03	23.44
08/18/87	1900	5.60	127.40	26.41	79.80	0.03	23.42
08/18/87	1915	5.35	94.10	6.01	80.20	0.03	23.43
08/18/87	1930	4.91	108.80	34.68	80.20	0.03	23.44
08/18/87	1945	6.41	129.50	7.99	80.50	0.03	23.39
08/18/87	2000	3.62	134.00	20.55	81.00	0.03	23.36
08/18/87	2015	5.13	87.90	9.97	81.00	0.03	23.19
08/18/87	2030	5.57	106.20	15.43	80.70	0.03	23.17
08/18/87	2045	6.45	121.10	9.97	80.90	0.03	23.29
08/18/87	2100	6.46	85.90	8.40	80.30	0.03	23.32
08/18/87	2115	5.52	73.10	7.65	79.80	0.03	23.37
08/18/87	2130	5.90	84.20	8.82	78.80	0.03	23.59
08/18/87	2145	7.26	115.60	8.41	77.60	0.03	23.93
08/18/87	2200	6.04	139.70	5.61	76.10	0.03	24.32
08/18/87	2215	8.62	123.30	3.62	75.10	0.03	24.90
08/18/87	2230	9.38	128.30	2.81	73.60	0.03	24.90
08/18/87	2245	12.69	145.60	4.04	73.30	0.03	24.90
08/18/87	2300	15.60	161.90	4.11	73.80	0.03	24.91
08/18/87	2315	15.10	175.90	2.87	73.10	0.03	24.91

RMA METEOROLOGICAL DATA  
FROM STATION M1  
07/17 - 10/08, 1987

DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
08/18/87	2330	13.14	204.60	2.46	72.30	0.03	24.92
08/18/87	2345	10.71	201.80	4.79	71.10	0.03	24.92
08/19/87	0	10.31	202.30	3.63	70.80	0.03	24.94
08/19/87	15	9.61	187.30	3.63	69.58	0.03	24.94
08/19/87	30	9.74	172.20	4.38	68.70	0.03	24.94
08/19/87	45	8.15	178.30	2.46	67.96	0.03	24.94
08/19/87	100	8.21	177.40	2.81	66.99	0.03	24.94
08/19/87	115	8.66	172.30	2.81	67.00	0.03	24.94
08/19/87	130	7.73	170.90	3.22	66.34	0.03	24.94
08/19/87	145	8.07	175.80	3.22	66.29	0.03	24.94
08/19/87	200	7.72	179.00	3.22	65.59	0.03	24.94
08/19/87	215	10.46	186.70	2.40	65.60	0.03	24.94
08/19/87	230	12.50	190.20	3.22	65.84	0.03	24.93
08/19/87	245	12.98	191.60	3.56	65.79	0.03	24.93
08/19/87	300	13.95	191.90	3.22	66.00	0.03	24.93
08/19/87	315	15.06	191.10	3.22	66.16	0.03	24.93
08/19/87	330	15.23	192.50	3.22	66.38	0.03	24.93
08/19/87	345	17.25	189.50	2.81	66.83	0.03	24.92
08/19/87	400	17.72	188.30	2.40	66.89	0.03	24.91
08/19/87	415	14.96	193.40	3.15	66.66	0.03	24.91
08/19/87	430	12.08	204.00	3.56	66.39	0.03	24.91
08/19/87	445	12.70	205.50	2.40	65.83	0.03	24.91
08/19/87	500	13.46	201.30	1.99	65.46	0.03	24.91
08/19/87	515	13.88	201.30	2.40	65.36	0.03	24.91
08/19/87	530	14.15	197.30	1.99	65.00	0.03	24.91
08/19/87	545	13.74	197.00	1.99	64.31	0.03	24.91
08/19/87	600	14.00	198.30	1.99	64.04	0.03	24.91
08/19/87	615	13.32	197.80	1.58	63.75	0.03	24.91
08/19/87	630	11.88	199.20	2.40	63.72	0.03	24.91
08/19/87	645	10.64	192.50	1.99	63.72	0.03	24.91
08/19/87	700	10.35	190.90	2.74	63.51	0.03	24.91
08/19/87	715	10.99	196.40	4.73	63.91	0.03	24.91
08/19/87	730	10.70	206.60	3.15	63.23	0.03	24.91
08/19/87	745	11.11	201.80	2.40	63.35	0.03	24.91
08/19/87	800	8.51	207.20	3.57	62.31	0.03	24.91
08/19/87	815	4.33	252.50	16.53	60.32	0.03	24.91
08/19/87	830	2.18	179.90	4.73	61.32	0.03	24.92
08/19/87	845	2.12	199.20	10.63	63.30	0.03	24.92
08/19/87	900	3.93	226.20	12.62	63.54	0.03	24.91
08/19/87	915	2.97	273.20	31.41	61.60	0.03	24.92
08/19/87	930	2.50	325.20	22.41	62.01	0.03	24.93
08/19/87	945	4.60	251.60	7.19	64.02	0.03	24.93
08/19/87	1000	5.56	226.30	14.66	65.51	0.03	24.93
08/19/87	1015	5.62	322.80	7.19	65.40	0.03	24.93
08/19/87	1030	6.56	324.30	7.18	65.34	0.03	24.93
08/19/87	1045	5.54	327.30	9.92	66.18	0.03	24.93

RMA METEOROLOGICAL DATA  
FROM STATION M1  
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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
08/19/87	1100	4.52	332.10	23.24	67.91	0.03	24.93
08/19/87	1115	2.93	231.10	20.91	70.30	0.03	24.93
08/19/87	1130	2.40	193.10	15.02	72.60	0.03	24.90
08/19/87	1145	4.21	187.40	8.39	73.20	0.03	24.91
08/19/87	1200	4.81	197.60	12.69	74.60	0.03	24.91
08/19/87	1215	3.38	213.70	13.09	77.30	0.03	24.65
08/19/87	1230	3.98	190.80	18.20	79.20	0.03	23.87
08/19/87	1245	4.20	149.80	22.96	80.90	0.03	24.69
08/19/87	1300	4.67	164.00	32.77	81.80	0.03	24.87
08/19/87	1315	4.14	146.60	31.12	83.80	0.03	24.88
08/19/87	1330	4.96	167.40	12.73	84.60	0.03	24.89
08/19/87	1345	5.19	168.80	28.04	85.70	0.03	24.88
08/19/87	1400	4.29	157.20	47.63	87.10	0.03	24.87
08/19/87	1415	6.53	111.00	19.86	87.10	0.03	24.88
08/19/87	1430	5.61	112.50	31.84	87.80	0.03	24.87
08/19/87	1445	7.27	196.10	51.16	87.70	0.03	24.86
08/19/87	1500	6.71	194.60	21.36	88.60	0.03	24.86
08/19/87	1515	8.23	243.70	21.36	88.60	0.03	24.85
08/19/87	1530	6.02	217.20	30.40	89.50	0.03	24.84
08/19/87	1545	4.74	355.00	61.42	90.10	0.03	24.84
08/19/87	1600	6.66	312.20	15.92	90.10	0.03	24.84
08/19/87	1615	6.66	359.80	31.15	90.50	0.03	24.83
08/19/87	1630	6.78	329.80	11.97	91.00	0.03	24.83
08/19/87	1645	4.77	46.69	28.83	92.10	0.03	24.83
08/19/87	1700	5.05	355.30	69.24	92.50	0.03	24.82
08/19/87	1715	6.29	82.80	21.36	91.80	0.03	24.81
08/19/87	1730	3.83	93.70	50.35	91.50	0.03	24.81
08/19/87	1745	8.42	191.00	40.56	91.40	0.03	24.81
08/19/87	1800	4.59	163.00	37.03	92.70	0.03	24.80
08/19/87	1815	7.49	137.90	21.03	93.00	0.03	24.79
08/19/87	1830	7.39	117.90	11.57	93.00	0.03	24.79
08/19/87	1845	8.53	116.80	22.53	92.80	0.03	24.78
08/19/87	1900	9.80	130.90	14.37	92.90	0.03	24.78
08/19/87	1915	8.13	138.00	24.52	92.10	0.03	24.78
08/19/87	1930	7.11	141.20	12.60	91.30	0.03	24.78
08/19/87	1945	7.02	128.40	29.98	92.10	0.03	24.78
08/19/87	2000	13.76	136.30	5.25	91.80	0.03	24.77
08/19/87	2015	12.96	134.30	5.66	90.60	0.03	24.63
08/19/87	2030	10.00	145.60	7.23	89.90	0.03	21.71
08/19/87	2045	10.84	154.80	4.50	89.00	0.03	21.79
08/19/87	2100	9.40	173.70	21.36	88.70	0.03	21.91
08/19/87	2115	11.55	159.30	9.56	89.10	0.03	21.49
08/19/87	2130	17.27	165.00	6.42	88.80	0.03	20.89
08/19/87	2145	13.12	159.80	2.87	87.50	0.03	21.19
08/19/87	2200	13.46	162.00	3.69	86.10	0.03	22.48
08/19/87	2215	12.26	167.30	3.69	84.70	0.03	23.06

RMA METEOROLOGICAL DATA  
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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
08/19/87	2230	12.69	175.30	2.87	84.10	0.03	24.56
08/19/87	2245	11.88	177.70	3.62	83.40	0.03	24.81
08/19/87	2300	10.10	177.90	3.21	82.10	0.03	24.81
08/19/87	2315	10.91	175.70	3.21	81.70	0.03	24.80
08/19/87	2330	11.38	174.00	3.62	81.30	0.03	24.80
08/19/87	2345	10.47	178.60	4.04	80.50	0.03	24.82
08/20/87	0	11.04	183.10	3.62	80.00	0.03	24.82
08/20/87	15	13.13	179.40	4.04	80.20	0.03	24.82
08/20/87	30	12.30	176.20	4.38	79.50	0.03	24.83
08/20/87	45	12.78	174.90	3.21	78.40	0.03	24.83
08/20/87	100	8.91	193.00	7.18	76.60	0.03	24.84
08/20/87	115	8.97	213.50	10.68	74.60	0.03	24.24
08/20/87	130	8.97	221.50	2.46	73.30	0.03	23.59
08/20/87	145	8.79	217.10	4.45	72.30	0.03	24.59
08/20/87	200	8.58	211.90	9.93	71.40	0.03	24.83
08/20/87	215	9.10	219.20	4.79	70.20	0.03	24.84
08/20/87	230	9.83	221.70	3.22	69.88	0.03	24.84
08/20/87	245	10.12	219.80	3.63	70.90	0.03	24.84
08/20/87	300	10.13	203.90	2.40	70.60	0.03	24.84
08/20/87	315	10.22	207.30	2.81	69.74	0.03	24.83
08/20/87	330	11.37	199.30	1.99	70.10	0.03	24.83
08/20/87	345	10.74	202.10	1.64	69.73	0.03	24.83
08/20/87	400	10.42	199.80	2.06	68.68	0.03	24.83
08/20/87	415	10.38	200.40	1.99	68.19	0.03	24.83
08/20/87	430	10.50	198.70	1.64	67.79	0.03	24.82
08/20/87	445	10.28	198.80	2.40	66.98	0.03	24.82
08/20/87	500	9.58	196.40	2.40	66.27	0.03	24.78
08/20/87	515	10.90	194.30	1.99	66.44	0.03	23.79
08/20/87	530	11.62	196.60	1.58	66.53	0.03	23.38
08/20/87	545	11.73	196.80	1.58	66.18	0.03	23.32
08/20/87	600	11.78	199.00	1.58	66.59	0.03	23.15
08/20/87	615	10.69	194.30	2.40	66.26	0.03	23.05
08/20/87	630	10.74	196.10	3.98	65.81	0.03	22.98
08/20/87	645	10.43	207.20	3.15	66.00	0.03	22.99
08/20/87	700	6.57	243.30	11.79	63.52	0.03	23.15
08/20/87	715	5.55	252.40	3.98	63.19	0.03	24.28
08/20/87	730	2.73	279.90	8.30	61.57	0.03	24.79
08/20/87	745	1.15	295.00	30.99	61.62	0.03	24.83
08/20/87	800	1.34	153.30	12.21	61.82	0.03	24.84
08/20/87	815	4.54	189.80	1.99	64.02	0.03	24.84
08/20/87	830	7.56	208.00	6.31	64.27	0.03	24.84
08/20/87	845	11.62	210.80	3.57	65.99	0.03	24.84
08/20/87	900	9.84	213.10	2.40	66.35	0.03	24.84
08/20/87	915	9.08	214.10	3.22	66.56	0.03	24.84
08/20/87	930	5.48	199.40	15.02	67.12	0.03	24.82
08/20/87	945	6.08	195.80	4.39	67.93	0.03	24.82

RMA METEOROLOGICAL DATA  
FROM STATION M1  
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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
08/20/87	1000	8.18	203.40	5.55	69.09	0.03	24.71
08/20/87	1015	6.36	200.40	7.54	70.60	0.03	24.33
08/20/87	1030	9.37	191.40	6.37	71.50	0.03	24.62
08/20/87	1045	11.36	208.80	5.96	72.00	0.03	24.45
08/20/87	1100	13.34	205.50	4.11	73.70	0.03	24.84
08/20/87	1115	12.66	218.00	5.61	76.30	0.03	24.84
08/20/87	1130	10.45	234.60	6.78	78.00	0.03	24.84
08/20/87	1145	8.69	240.20	13.82	79.70	0.03	24.84
08/20/87	1200	9.92	224.40	13.47	82.10	0.03	24.63
08/20/87	1215	12.77	220.40	8.81	84.60	0.03	23.34
08/20/87	1230	15.89	212.90	3.28	85.60	0.03	23.07
08/20/87	1245	16.95	210.90	4.84	87.20	0.03	22.62
08/20/87	1300	17.78	203.60	3.68	88.50	0.03	21.24
08/20/87	1315	17.47	218.90	3.68	89.90	0.03	22.42
08/20/87	1330	15.71	218.20	6.48	89.90	0.03	24.76
08/20/87	1345	11.45	208.30	16.70	90.10	0.03	24.75
08/20/87	1400	8.32	207.00	15.46	91.70	0.03	23.94
08/20/87	1415	5.05	153.40	59.85	91.60	0.03	23.34
08/20/87	1430	6.57	194.40	20.21	92.20	0.03	24.81
08/20/87	1445	4.64	171.90	73.90	92.80	0.03	24.83
08/20/87	1500	8.65	237.90	15.51	91.70	0.03	24.81
08/20/87	1515	6.36	214.80	17.00	92.80	0.03	24.81
08/20/87	1530	7.53	218.10	26.45	92.80	0.03	24.79
08/20/87	1545	7.38	215.60	28.43	93.20	0.03	24.79
08/20/87	1600	8.73	235.90	10.40	93.80	0.03	24.79
08/20/87	1615	7.45	262.50	44.48	93.10	0.03	24.79
08/20/87	1630	6.46	209.40	34.75	94.40	0.03	24.78
08/20/87	1645	3.94	30.82	25.57	95.10	0.03	24.78
08/20/87	1700	5.54	28.56	25.63	93.50	0.03	24.78
08/20/87	1715	7.81	305.00	8.84	94.30	0.03	24.77
08/20/87	1730	9.67	303.10	17.48	93.80	0.03	24.76
08/20/87	1745	6.17	286.40	17.07	93.60	0.03	24.75
08/20/87	1800	4.90	240.70	22.52	93.80	0.03	24.75
08/20/87	1815	8.56	253.70	7.28	92.50	0.03	24.37
08/20/87	1830	6.20	275.60	4.90	92.40	0.03	22.63
08/20/87	1845	13.35	254.70	10.42	92.30	0.03	22.07
08/20/87	1900	9.56	269.80	19.83	91.70	0.03	21.55
08/20/87	1915	7.63	297.30	13.56	91.10	0.03	22.54
08/20/87	1930	12.41	277.70	5.66	90.50	0.03	22.70
08/20/87	1945	10.65	286.50	5.66	90.40	0.03	23.81
08/20/87	2000	11.09	299.40	6.89	91.70	0.03	24.53
08/20/87	2015	8.13	311.00	10.43	91.80	0.03	24.54
08/20/87	2030	5.88	335.60	10.02	91.80	0.03	24.53
08/20/87	2045	6.93	335.10	4.09	90.40	0.03	24.53
08/20/87	2100	5.52	355.70	7.64	88.10	0.03	23.89
08/20/87	2115	4.83	353.00	4.50	85.60	0.03	24.76

RMA METEOROLOGICAL DATA  
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08/20/87	2130	4.77	338.60	7.24	84.40	0.03	24.79
08/20/87	2145	6.21	339.90	2.87	84.70	0.03	24.80
08/20/87	2200	3.72	304.20	14.62	82.60	0.03	24.79
08/20/87	2215	2.81	299.20	15.03	83.50	0.03	24.79
08/20/87	2230	6.12	304.20	3.62	84.30	0.03	24.79
08/20/87	2245	5.92	13.15	2.05	83.30	0.03	24.03
08/20/87	2300	10.98	38.09	4.79	81.70	0.03	22.47
08/20/87	2315	9.82	34.33	3.21	79.80	0.03	23.90
08/20/87	2330	5.87	357.40	4.38	79.90	0.03	24.81
08/20/87	2345	6.86	26.00	10.67	80.70	0.03	24.81
08/21/87	0	6.46	47.20	3.62	79.20	0.03	24.81
08/21/87	15	4.70	58.01	5.20	77.40	0.03	24.83
08/21/87	30	4.29	19.16	5.13	77.60	0.03	24.84
08/21/87	45	5.83	37.19	3.97	76.70	0.03	24.84
08/21/87	100	5.05	69.56	9.51	75.50	0.03	24.84
08/21/87	115	5.52	70.60	3.63	75.30	0.03	24.84
08/21/87	130	9.00	108.30	1.99	74.10	0.03	24.84
08/21/87	145	10.12	115.80	3.15	73.70	0.03	24.84
08/21/87	200	8.18	124.50	14.99	73.50	0.03	24.84
08/21/87	215	4.41	161.70	23.27	72.80	0.03	24.84
08/21/87	230	4.72	260.90	5.20	71.80	0.03	24.48
08/21/87	245	4.04	228.70	4.04	72.40	0.03	23.70
08/21/87	300	3.51	198.00	4.04	72.80	0.03	23.72
08/21/87	315	4.41	197.30	5.55	72.90	0.03	24.80
08/21/87	330	5.25	197.70	3.22	72.90	0.03	24.81
08/21/87	345	6.47	201.00	3.97	72.50	0.03	24.81
08/21/87	400	7.62	189.10	2.40	72.30	0.03	24.80
08/21/87	415	7.68	181.20	3.22	71.50	0.03	24.80
08/21/87	430	7.12	167.90	4.73	72.40	0.03	24.80
08/21/87	445	9.73	152.60	1.99	70.40	0.03	24.78
08/21/87	500	8.12	155.90	1.58	68.55	0.03	24.74
08/21/87	515	7.45	157.80	5.89	69.53	0.03	24.23
08/21/87	530	7.10	159.60	0.41	69.49	0.03	23.14
08/21/87	545	7.96	154.10	2.74	66.96	0.03	22.89
08/21/87	600	8.66	177.30	1.58	68.90	0.03	22.72
08/21/87	615	7.62	183.40	2.40	68.86	0.03	22.64
08/21/87	630	8.27	182.20	3.15	68.36	0.03	22.45
08/21/87	645	8.30	191.80	3.56	67.33	0.03	22.40
08/21/87	700	8.03	187.60	2.06	67.12	0.03	22.26
08/21/87	715	8.07	185.00	2.06	66.99	0.03	22.27
08/21/87	730	11.60	170.40	1.65	67.34	0.03	22.30
08/21/87	745	11.83	178.60	1.23	67.04	0.03	22.31
08/21/87	800	8.48	196.10	8.29	66.05	0.03	22.17
08/21/87	815	5.14	215.80	5.96	64.48	0.03	22.87
08/21/87	830	3.96	125.90	12.61	62.93	0.03	24.23
08/21/87	845	4.63	127.20	3.56	62.91	0.03	24.52

RMA METEOROLOGICAL DATA  
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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
08/21/87	900	6.63	148.50	2.40	64.26	0.03	24.30
08/21/87	915	5.43	187.50	3.63	65.24	0.03	24.22
08/21/87	930	3.25	182.70	10.28	65.84	0.03	24.25
08/21/87	945	5.28	200.10	2.06	67.58	0.03	24.19
08/21/87	1000	5.62	197.80	3.63	68.31	0.03	23.76
08/21/87	1015	5.56	189.00	5.21	69.61	0.03	23.61
08/21/87	1030	6.61	193.00	5.96	70.70	0.03	23.69
08/21/87	1045	6.37	200.00	3.29	71.40	0.03	23.84
08/21/87	1100	6.30	195.10	6.03	72.70	0.03	23.88
08/21/87	1115	5.58	210.60	7.19	74.00	0.03	24.07
08/21/87	1130	5.27	196.00	7.60	76.10	0.03	24.37
08/21/87	1145	2.69	176.50	14.23	79.20	0.03	23.99
08/21/87	1200	2.39	112.60	37.32	81.80	0.03	24.26
08/21/87	1215	3.60	110.00	33.07	82.00	0.03	24.77
08/21/87	1230	4.01	49.82	18.98	85.00	0.03	24.87
08/21/87	1245	5.25	31.65	24.08	85.70	0.03	24.90
08/21/87	1300	4.39	27.80	27.20	84.40	0.03	24.90
08/21/87	1315	4.24	317.10	56.23	84.20	0.03	24.90
08/21/87	1330	4.55	39.24	38.98	85.10	0.03	24.91
08/21/87	1345	8.76	27.05	7.63	84.90	0.03	24.90
08/21/87	1400	10.15	43.78	13.55	85.00	0.03	24.90
08/21/87	1415	7.34	40.91	12.74	84.70	0.03	24.90
08/21/87	1430	7.20	13.34	20.98	84.50	0.03	24.90
08/21/87	1445	10.01	24.34	8.38	84.40	0.03	23.33
08/21/87	1500	11.19	34.13	7.63	84.40	0.03	21.40
08/21/87	1515	8.41	21.52	11.93	84.30	0.03	21.81
08/21/87	1530	7.79	3.79	11.93	84.50	0.03	21.08
08/21/87	1545	12.23	27.46	6.82	85.00	0.03	20.77
08/21/87	1600	13.27	30.08	6.41	85.00	0.03	20.58
08/21/87	1615	11.41	30.68	10.36	85.40	0.03	20.47
08/21/87	1630	12.56	47.57	16.64	86.00	0.03	20.72
08/21/87	1645	9.18	30.46	11.52	85.30	0.03	20.79
08/21/87	1700	10.75	42.20	11.93	86.40	0.03	20.33
08/21/87	1715	8.37	15.68	12.68	84.30	0.03	20.26
08/21/87	1730	7.83	30.32	8.80	83.50	0.03	22.28
08/21/87	1745	7.97	33.82	6.00	82.70	0.03	22.89
08/21/87	1800	6.26	16.00	7.58	81.80	0.03	23.14
08/21/87	1815	9.69	283.80	5.94	77.70	0.03	23.08
08/21/87	1830	12.22	303.50	8.33	70.80	0.03	24.46
08/21/87	1845	7.37	318.40	7.17	70.20	0.03	24.94
08/21/87	1900	3.33	271.30	9.09	70.60	0.03	24.95
08/21/87	1915	5.23	291.30	9.09	70.40	0.03	24.95
08/21/87	1930	6.68	336.60	9.10	69.77	0.03	23.96
08/21/87	1945	5.44	6.66	6.77	70.50	0.03	22.79
08/21/87	2000	6.26	344.20	7.53	71.10	0.03	22.26
08/21/87	2015	5.08	350.30	10.74	70.90	0.03	21.96

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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
08/21/87	2030	7.76	319.80	7.60	70.20	0.03	21.67
08/21/87	2045	6.67	304.10	5.61	68.46	0.03	22.42
08/21/87	2100	4.36	294.60	9.10	67.34	0.03	23.46
08/21/87	2115	1.07	301.60	24.78	67.26	0.03	23.06
08/21/87	2130	3.11	114.90	3.22	67.43	0.03	22.66
08/21/87	2145	3.11	71.40	2.46	66.85	0.03	22.56
08/21/87	2200	2.68	33.34	3.63	66.75	0.03	22.75
08/21/87	2215	3.32	42.34	7.12	66.56	0.03	22.89
08/21/87	2230	5.29	88.80	4.79	65.74	0.03	22.71
08/21/87	2245	6.27	100.50	3.22	65.22	0.03	22.61
08/21/87	2300	5.87	110.20	2.81	65.29	0.03	22.50
08/21/87	2315	5.87	103.00	5.14	65.24	0.03	22.50
08/21/87	2330	7.38	115.10	3.22	64.65	0.03	22.67
08/21/87	2345	5.98	141.40	14.59	64.67	0.03	22.83
08/22/87	0	6.77	160.40	4.80	64.72	0.03	22.81
08/22/87	15	6.21	151.60	4.38	65.29	0.03	22.60
08/22/87	30	4.89	243.90	27.89	65.59	0.03	22.46
08/22/87	45	7.05	317.60	2.81	65.21	0.03	22.45
08/22/87	100	6.54	326.20	3.56	63.57	0.05	22.86
08/22/87	115	3.95	344.70	9.05	62.08	0.11	23.12
08/22/87	130	1.77	24.67	16.18	61.52	0.12	23.21
08/22/87	145	2.96	2.40	12.61	61.76	0.13	23.19
08/22/87	200	4.27	64.88	13.78	61.74	0.19	23.23
08/22/87	215	7.65	103.80	8.29	61.63	0.28	23.16
08/22/87	230	11.62	118.00	2.40	61.70	0.34	23.12
08/22/87	245	9.67	118.20	3.98	61.26	0.41	23.07
08/22/87	300	9.43	113.20	4.73	60.92	0.48	23.07
08/22/87	315	3.03	82.90	21.60	60.68	0.51	23.12
08/22/87	330	1.74	61.17	12.14	60.73	0.51	23.08
08/22/87	345	1.69	158.40	12.55	60.81	0.52	22.99
08/22/87	400	4.45	148.50	16.11	61.00	0.54	22.92
08/22/87	415	2.22	193.80	25.09	60.72	0.58	22.72
08/22/87	430	4.66	144.70	6.72	60.62	0.64	22.64
08/22/87	445	9.08	137.80	4.32	60.93	0.66	22.63
08/22/87	500	14.59	150.50	9.05	60.93	0.68	22.59
08/22/87	515	6.92	231.60	16.52	60.73	0.74	22.72
08/22/87	530	4.76	165.40	14.95	60.33	0.77	22.90
08/22/87	545	11.53	144.70	5.14	60.32	0.78	22.88
08/22/87	600	10.83	131.30	19.27	60.23	0.79	22.98
08/22/87	615	4.68	240.50	15.36	60.31	0.79	23.11
08/22/87	630	4.53	229.40	22.84	60.76	0.79	23.21
08/22/87	645	5.00	165.50	22.01	61.14	0.79	23.13
08/22/87	700	5.29	148.20	22.01	61.24	0.79	23.11
08/22/87	715	7.73	142.10	5.90	61.28	0.79	23.01
08/22/87	730	7.93	135.60	6.72	61.28	0.79	22.97
08/22/87	745	7.35	144.80	12.62	61.00	0.79	23.05



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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
08/22/87	800	6.66	141.20	7.54	60.38	0.79	22.97
08/22/87	815	5.95	121.60	8.30	59.95	0.79	23.21
08/22/87	830	3.86	93.30	5.90	59.84	0.79	23.32
08/22/87	845	3.31	94.40	8.71	59.95	0.79	23.31
08/22/87	900	3.55	113.50	15.36	60.35	0.79	23.31
08/22/87	915	3.62	140.10	6.31	60.72	0.79	23.20
08/22/87	930	3.56	161.20	6.72	61.54	0.79	23.34
08/22/87	945	2.93	171.60	23.24	61.56	0.79	23.43
08/22/87	1000	2.48	147.90	15.35	62.36	0.79	23.40
08/22/87	1015	4.71	143.50	7.20	62.49	0.79	23.49
08/22/87	1030	6.78	147.80	7.13	62.71	0.79	23.30
08/22/87	1045	8.41	127.90	9.11	63.83	0.79	23.37
08/22/87	1100	9.51	129.30	6.78	64.61	0.79	23.75
08/22/87	1115	11.67	121.60	6.37	64.49	0.79	25.01
08/22/87	1130	10.22	125.10	5.20	64.81	0.79	25.03
08/22/87	1145	10.93	114.60	3.22	64.68	0.79	25.04
08/22/87	1200	11.25	118.80	4.79	64.80	0.79	25.04
08/22/87	1215	11.57	126.10	6.78	65.48	0.79	25.05
08/22/87	1230	12.37	114.70	6.37	65.17	0.79	25.06
08/22/87	1245	12.05	115.80	4.79	64.68	0.79	25.06
08/22/87	1300	12.98	118.80	4.38	64.29	0.79	24.91
08/22/87	1315	10.94	122.50	5.21	64.39	0.79	23.90
08/22/87	1330	11.12	123.90	5.55	64.98	0.79	23.38
08/22/87	1345	14.56	112.20	7.12	64.03	0.79	23.31
08/22/87	1400	16.48	106.60	5.55	63.78	0.79	23.26
08/22/87	1415	18.57	105.30	4.38	63.74	0.79	23.21
08/22/87	1430	17.36	102.80	4.38	63.94	0.79	23.14
08/22/87	1445	16.13	101.00	4.04	64.83	0.79	23.13
08/22/87	1500	16.99	99.60	4.04	64.68	0.79	23.14
08/22/87	1515	16.15	99.10	6.78	65.23	0.79	23.14
08/22/87	1530	18.30	94.50	6.78	65.18	0.79	23.40
08/22/87	1545	19.52	100.80	4.04	64.78	0.79	23.42
08/22/87	1600	16.85	96.90	5.55	64.57	0.79	23.31
08/22/87	1615	16.19	93.10	5.96	64.21	0.79	23.18
08/22/87	1630	16.28	95.00	4.38	64.33	0.79	23.07
08/22/87	1645	16.95	99.10	4.38	63.41	0.79	23.03
08/22/87	1700	14.36	89.20	4.80	62.89	0.79	23.30
08/22/87	1715	12.06	89.70	5.21	62.52	0.79	23.36
08/22/87	1730	6.67	97.20	10.28	60.28	0.81	23.98
08/22/87	1745	6.21	92.40	7.13	58.18	0.89	25.15
08/22/87	1800	7.86	46.71	2.81	56.70	0.95	25.15
08/22/87	1815	7.67	43.93	11.04	56.00	0.98	25.15
08/22/87	1830	9.51	70.20	5.55	56.54	0.99	25.15
08/22/87	1845	6.87	59.29	8.30	56.88	1.00	25.15
08/22/87	1900	8.43	65.19	4.39	56.98	1.00	25.15
08/22/87	1915	11.05	72.90	4.73	56.30	0.00	25.15

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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
08/22/87	1930	7.84	68.93	5.14	55.99	0.00	25.16
08/22/87	1945	8.44	70.00	5.49	55.99	0.00	25.16
08/22/87	2000	7.98	62.95	7.48	55.68	0.01	25.17
08/22/87	2015	8.65	44.48	3.16	55.17	0.01	25.17
08/22/87	2030	7.74	49.27	8.64	54.76	0.01	25.17
08/22/87	2045	7.78	45.80	5.90	54.79	0.01	25.17
08/22/87	2100	8.50	54.76	7.89	54.59	0.01	25.18
08/22/87	2115	7.80	51.58	16.54	54.33	0.01	25.18
08/22/87	2130	8.16	54.43	5.49	54.03	0.02	25.18
08/22/87	2145	7.97	56.11	5.90	53.43	0.02	25.18
08/22/87	2200	7.21	57.99	6.31	53.38	0.02	25.18
08/22/87	2215	7.16	66.61	4.74	53.54	0.02	25.18
08/22/87	2230	7.58	55.89	5.90	53.30	0.02	25.18
08/22/87	2245	7.33	69.80	3.57	53.20	0.02	25.19
08/22/87	2300	7.96	73.10	5.08	53.03	0.02	25.19
08/22/87	2315	8.73	82.40	3.91	53.16	0.02	25.19
08/22/87	2330	7.27	86.20	7.48	53.05	0.02	25.19
08/22/87	2345	7.83	92.40	4.32	53.09	0.02	25.19
08/23/87	0	8.24	95.90	6.25	53.17	0.02	25.20
08/23/87	15	9.68	99.10	4.74	52.95	0.02	25.20
08/23/87	30	10.26	104.20	3.16	53.05	0.02	25.20
08/23/87	45	10.80	101.80	4.32	52.94	0.02	25.20
08/23/87	100	10.33	103.20	4.32	52.78	0.03	25.20
08/23/87	115	8.66	99.40	6.25	52.76	0.03	25.20
08/23/87	130	9.06	97.00	5.08	52.75	0.03	25.19
08/23/87	145	8.21	94.00	5.08	52.67	0.03	25.19
08/23/87	200	9.10	97.50	3.91	52.66	0.03	25.19
08/23/87	215	9.02	100.80	7.07	52.65	0.03	25.19
08/23/87	230	10.15	102.30	4.67	52.67	0.04	25.19
08/23/87	245	10.03	108.70	3.09	52.70	0.04	25.19
08/23/87	300	10.59	113.40	4.67	52.88	0.04	25.19
08/23/87	315	11.33	119.20	4.67	52.87	0.04	25.18
08/23/87	330	11.43	119.40	4.67	52.90	0.04	25.17
08/23/87	345	9.96	120.90	4.67	52.99	0.04	25.16
08/23/87	400	9.89	117.60	4.26	53.08	0.04	25.16
08/23/87	415	8.25	123.00	4.33	53.16	0.04	25.16
08/23/87	430	8.41	125.40	4.74	53.29	0.04	25.16
08/23/87	445	7.51	124.70	3.57	53.47	0.04	25.16
08/23/87	500	7.01	126.50	5.15	53.75	0.04	25.15
08/23/87	515	7.34	127.10	4.74	53.92	0.04	25.15
08/23/87	530	5.83	128.10	12.15	54.05	0.04	25.14
08/23/87	545	3.44	127.30	10.98	54.17	0.04	25.14
08/23/87	600	3.60	146.90	10.23	54.34	0.04	25.14
08/23/87	615	4.71	149.70	4.32	54.44	0.04	25.14
08/23/87	630	3.38	172.30	14.96	54.70	0.04	25.14
08/23/87	645	1.35	171.90	9.06	54.90	0.04	25.13

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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
08/23/87	700	1.30	93.40	7.48	54.84	0.04	25.13
08/23/87	715	1.62	114.80	15.31	54.87	0.04	25.13
08/23/87	730	2.08	93.80	13.38	54.95	0.04	25.13
08/23/87	745	3.77	124.60	5.08	54.93	0.04	25.13
08/23/87	800	5.42	109.50	7.48	54.49	0.04	25.13
08/23/87	815	5.71	121.60	5.90	54.01	0.04	25.13
08/23/87	830	5.34	126.90	9.06	53.94	0.04	25.13
08/23/87	845	3.51	143.50	12.15	54.09	0.04	25.13
08/23/87	900	3.22	137.80	23.13	54.20	0.04	25.13
08/23/87	915	1.39	276.10	18.05	54.49	0.04	25.13
08/23/87	930	1.71	298.70	7.07	54.84	0.04	25.13
08/23/87	945	3.64	312.30	6.72	54.74	0.04	25.13
08/23/87	1000	6.74	325.70	2.75	54.53	0.04	25.13
08/23/87	1015	8.16	323.20	6.66	54.02	0.04	25.13
08/23/87	1030	8.64	321.00	3.57	53.36	0.04	25.13
08/23/87	1045	7.36	327.20	4.74	53.40	0.04	25.13
08/23/87	1100	8.56	317.60	3.91	53.19	0.04	25.13
08/23/87	1115	8.91	320.70	3.91	52.94	0.04	25.13
08/23/87	1130	7.95	327.50	5.83	53.11	0.04	25.13
08/23/87	1145	7.49	327.50	11.39	53.16	0.04	25.13
08/23/87	1200	7.49	320.50	7.48	53.20	0.04	25.13
08/23/87	1215	6.34	316.20	6.66	53.41	0.04	25.13
08/23/87	1230	6.06	320.40	5.08	53.58	0.04	25.13
08/23/87	1245	5.32	312.10	7.48	53.92	0.04	25.13
08/23/87	1300	3.42	314.40	12.14	54.45	0.04	25.13
08/23/87	1315	3.02	313.60	15.30	54.99	0.04	25.13
08/23/87	1330	2.49	278.50	20.44	55.12	0.04	25.13
08/23/87	1345	1.70	218.40	16.12	55.24	0.04	25.13
08/23/87	1400	1.03	235.70	14.13	56.21	0.04	25.13
08/23/87	1415	2.01	218.20	15.36	56.43	0.04	25.12
08/23/87	1430	2.54	248.20	25.10	56.60	0.04	25.12
08/23/87	1445	2.46	298.70	35.72	57.31	0.04	25.12
08/23/87	1500	1.84	17.22	20.43	57.77	0.04	25.10
08/23/87	1515	1.69	27.38	29.06	57.73	0.04	25.09
08/23/87	1530	1.51	330.90	27.83	57.50	0.04	25.10
08/23/87	1545	3.49	294.30	12.61	57.97	0.04	25.09
08/23/87	1600	5.17	292.70	15.76	58.87	0.04	25.08
08/23/87	1615	5.18	292.80	12.67	59.42	0.04	25.08
08/23/87	1630	5.34	280.20	18.97	59.86	0.04	25.08
08/23/87	1645	4.39	305.00	15.07	60.90	0.04	25.08
08/23/87	1700	5.20	305.90	13.08	61.85	0.04	25.06
08/23/87	1715	4.08	260.30	26.35	62.08	0.04	25.06
08/23/87	1730	3.30	336.20	48.67	62.26	0.04	25.05
08/23/87	1745	3.80	332.00	25.53	62.38	0.04	25.05
08/23/87	1800	6.44	321.20	8.69	61.01	0.04	25.04
08/23/87	1815	6.68	319.10	7.60	60.51	0.04	25.03

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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
08/23/87	1830	7.09	322.90	10.34	60.51	0.04	25.04
08/23/87	1845	9.69	327.30	3.15	59.78	0.04	25.04
08/23/87	1900	10.60	327.10	4.04	59.06	0.04	25.03
08/23/87	1915	9.63	324.90	4.79	58.98	0.04	25.03
08/23/87	1930	9.74	327.10	4.80	58.95	0.04	25.03
08/23/87	1945	10.05	325.10	4.39	58.78	0.04	25.03
08/23/87	2000	8.80	321.90	4.80	58.50	0.04	25.03
08/23/87	2015	7.52	322.30	5.14	58.07	0.04	25.03
08/23/87	2030	6.82	322.60	3.98	57.47	0.05	25.03
08/23/87	2045	8.04	317.30	5.14	57.15	0.05	25.03
08/23/87	2100	8.40	319.80	5.14	56.92	0.05	25.03
08/23/87	2115	8.15	330.90	3.98	56.58	0.07	25.03
08/23/87	2130	7.31	339.30	6.31	56.19	0.09	25.03
08/23/87	2145	7.94	335.60	3.15	55.67	0.10	25.03
08/23/87	2200	7.10	338.70	2.74	55.45	0.13	25.03
08/23/87	2215	4.76	337.80	3.98	55.26	0.16	25.03
08/23/87	2230	6.19	335.30	4.32	55.08	0.18	25.03
08/23/87	2245	4.88	324.30	12.55	55.08	0.19	25.03
08/23/87	2300	3.31	298.50	7.07	55.10	0.20	25.04
08/23/87	2315	3.17	299.70	5.08	55.05	0.21	25.04
08/23/87	2330	2.66	280.00	4.32	55.16	0.23	25.04
08/23/87	2345	3.20	266.10	4.73	55.11	0.26	25.04
08/24/87	0	2.79	257.40	3.57	55.06	0.29	25.04
08/24/87	15	2.90	240.10	5.08	55.12	0.31	25.03
08/24/87	30	2.74	223.40	8.23	55.17	0.31	25.03
08/24/87	45	3.59	183.30	4.32	55.30	0.31	25.03
08/24/87	100	2.66	182.40	12.56	55.51	0.31	25.02
08/24/87	115	2.11	169.30	6.66	55.69	0.31	25.01
08/24/87	130	1.58	188.10	5.83	55.84	0.31	25.01
08/24/87	145	2.26	238.90	19.62	55.92	0.32	25.00
08/24/87	200	2.77	276.40	3.16	55.75	0.33	25.00
08/24/87	215	1.32	276.40	12.56	55.72	0.33	25.00
08/24/87	230	1.96	274.40	3.91	55.75	0.33	25.00
08/24/87	245	1.23	305.70	11.39	55.83	0.33	24.99
08/24/87	300	1.17	32.16	4.32	55.85	0.33	24.98
08/24/87	315	2.28	73.60	3.16	55.89	0.33	24.98
08/24/87	330	4.16	78.90	9.88	55.92	0.33	24.98
08/24/87	345	3.08	94.50	19.28	56.01	0.33	24.97
08/24/87	400	6.34	143.30	5.15	55.81	0.33	24.96
08/24/87	415	4.98	144.20	10.22	55.13	0.33	24.96
08/24/87	430	3.57	122.40	7.89	53.99	0.33	24.95
08/24/87	445	4.27	143.00	1.58	53.49	0.33	24.96
08/24/87	500	4.85	121.80	3.57	53.84	0.33	24.96
08/24/87	515	5.50	100.80	3.57	53.83	0.33	24.95
08/24/87	530	6.15	109.30	1.99	53.95	0.33	24.95
08/24/87	545	4.62	106.20	5.08	53.18	0.33	24.95

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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
08/24/87	600	2.24	31.85	5.49	52.72	0.33	24.95
08/24/87	615	1.59	49.85	14.14	52.89	0.33	24.95
08/24/87	630	1.51	46.16	14.90	53.17	0.33	24.95
08/24/87	645	1.70	32.82	13.38	53.21	0.33	24.95
08/24/87	700	1.20	20.81	13.80	53.39	0.33	24.95
08/24/87	715	0.91	5.34	0.76	53.50	0.33	24.95
08/24/87	730	2.21	336.70	4.74	53.41	0.33	24.95
08/24/87	745	3.29	326.40	5.08	53.01	0.33	24.94
08/24/87	800	2.81	324.30	7.48	52.92	0.33	24.94
08/24/87	815	1.90	330.00	7.48	53.35	0.33	24.94
08/24/87	830	3.34	334.30	8.99	53.87	0.33	24.93
08/24/87	845	5.07	330.50	11.74	54.03	0.33	24.93
08/24/87	900	3.07	341.30	6.31	54.12	0.33	24.93
08/24/87	915	2.21	343.00	9.81	54.28	0.33	24.93
08/24/87	930	2.08	317.60	7.89	54.49	0.33	24.93
08/24/87	945	3.70	297.00	7.89	54.78	0.33	24.93
08/24/87	1000	3.34	292.80	6.66	55.10	0.33	24.93
08/24/87	1015	3.69	317.60	7.07	55.30	0.33	24.93
08/24/87	1030	4.39	326.50	6.72	55.45	0.33	24.93
08/24/87	1045	5.20	334.80	8.64	55.69	0.33	24.93
08/24/87	1100	5.31	332.70	7.48	55.77	0.33	24.93
08/24/87	1115	4.62	338.30	11.80	56.11	0.33	24.93
08/24/87	1130	5.53	337.90	5.90	56.43	0.33	24.91
08/24/87	1145	5.42	322.70	15.36	56.56	0.33	24.91
08/24/87	1200	5.00	343.30	16.11	56.96	0.33	24.91
08/24/87	1215	3.78	344.30	17.28	57.30	0.33	24.91
08/24/87	1230	4.03	347.00	10.63	57.08	0.33	24.91
08/24/87	1245	3.91	0.08	11.04	57.17	0.33	24.91
08/24/87	1300	2.98	28.80	19.67	58.35	0.33	24.91
08/24/87	1315	2.21	32.16	19.33	59.64	0.33	24.91
08/24/87	1330	1.71	358.70	23.23	60.06	0.33	24.91
08/24/87	1345	1.70	332.40	36.92	60.20	0.33	24.91
08/24/87	1400	2.89	39.04	56.16	60.84	0.33	24.90
08/24/87	1415	2.46	350.20	54.66	61.71	0.33	24.90
08/24/87	1430	3.55	127.30	18.21	61.63	0.33	24.89
08/24/87	1445	3.07	123.40	36.22	62.32	0.33	24.89
08/24/87	1500	2.85	196.90	26.42	63.44	0.33	24.88
08/24/87	1515	3.12	216.00	50.70	64.42	0.33	24.87
08/24/87	1530	2.78	144.30	36.18	66.12	0.33	24.85
08/24/87	1545	2.63	138.10	40.48	65.41	0.33	24.85
08/24/87	1600	2.90	249.60	39.38	66.08	0.33	24.85
08/24/87	1615	5.03	349.50	12.65	64.94	0.33	24.84
08/24/87	1630	4.93	345.60	17.37	65.01	0.33	24.84
08/24/87	1645	5.39	352.10	9.91	65.38	0.33	24.84
08/24/87	1700	5.81	355.70	32.27	65.62	0.33	24.84
08/24/87	1715	5.62	2.06	18.53	66.35	0.33	24.83

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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
08/24/87	1730	7.03	9.08	11.90	66.33	0.33	24.81
08/24/87	1745	5.98	27.83	11.14	67.70	0.33	24.80
08/24/87	1800	7.82	3.68	25.97	67.58	0.33	24.80
08/24/87	1815	6.75	353.20	7.93	67.33	0.33	24.80
08/24/87	1830	7.15	340.00	5.61	66.73	0.33	24.80
08/24/87	1845	7.81	332.80	8.69	66.12	0.33	24.80
08/24/87	1900	12.81	314.30	4.79	65.55	0.33	24.81
08/24/87	1915	14.60	320.10	2.74	62.54	0.34	24.82
08/24/87	1930	10.29	325.30	5.20	61.26	0.37	24.82
08/24/87	1945	9.92	310.50	4.04	60.46	0.41	24.82
08/24/87	2000	5.70	345.10	2.40	60.05	0.48	24.82
08/24/87	2015	4.10	43.20	17.33	60.14	0.50	24.81
08/24/87	2030	10.19	111.20	3.22	60.93	0.50	24.80
08/24/87	2045	8.29	104.40	17.33	61.35	0.50	24.80
08/24/87	2100	3.15	23.20	19.32	62.28	0.50	24.80
08/24/87	2115	1.93	325.80	43.99	62.00	0.50	24.81
08/24/87	2130	3.50	343.30	4.38	61.81	0.50	24.82
08/24/87	2145	5.02	313.40	3.98	61.22	0.50	24.82
08/24/87	2200	3.96	299.70	8.29	60.88	0.50	24.82
08/24/87	2215	3.04	310.60	6.31	60.88	0.50	24.83
08/24/87	2230	1.40	331.10	25.50	60.92	0.50	24.83
08/24/87	2245	1.94	341.00	8.29	61.02	0.50	24.83
08/24/87	2300	1.74	351.20	14.53	61.05	0.50	24.84
08/24/87	2315	2.17	37.64	4.73	60.91	0.50	24.85
08/24/87	2330	1.94	37.08	1.58	60.89	0.50	24.85
08/24/87	2345	2.34	94.90	3.15	60.75	0.50	24.85
08/25/87	0	2.50	101.00	7.13	61.21	0.50	24.85
08/25/87	15	1.42	62.76	35.72	60.90	0.50	24.85
08/25/87	30	1.74	304.90	7.89	60.43	0.50	24.85
08/25/87	45	3.82	297.20	16.12	60.81	0.50	24.85
08/25/87	100	3.32	197.50	2.40	58.79	0.50	24.85
08/25/87	115	5.30	195.10	4.39	60.36	0.50	24.86
08/25/87	130	3.47	191.10	5.56	60.24	0.50	24.86
08/25/87	145	2.73	238.00	7.54	60.51	0.50	24.86
08/25/87	200	3.75	270.00	3.15	60.63	0.50	24.86
08/25/87	215	4.08	246.80	1.65	59.56	0.50	24.86
08/25/87	230	4.28	219.40	2.81	58.61	0.50	24.86
08/25/87	245	4.84	221.40	3.57	59.39	0.50	24.86
08/25/87	300	4.01	238.20	5.14	58.84	0.50	24.85
08/25/87	315	4.17	233.70	3.98	58.22	0.50	24.85
08/25/87	330	4.97	209.40	2.74	57.90	0.50	24.85
08/25/87	345	4.77	209.10	1.58	58.62	0.50	24.85
08/25/87	400	3.87	206.60	4.73	58.70	0.50	24.85
08/25/87	415	4.38	203.40	2.40	58.77	0.50	24.85
08/25/87	430	4.55	203.70	1.17	58.79	0.50	24.84
08/25/87	445	4.92	187.00	2.74	58.58	0.50	24.84

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08/25/87	500	3.89	212.20	10.22	58.33	0.50	24.84
08/25/87	515	3.47	200.70	7.07	57.65	0.50	24.84
08/25/87	530	5.25	179.80	1.99	57.46	0.50	24.84
08/25/87	545	3.68	164.40	18.46	57.09	0.50	24.84
08/25/87	600	2.38	200.80	4.74	56.45	0.50	24.84
08/25/87	615	3.33	224.00	4.32	56.67	0.50	24.84
08/25/87	630	4.56	249.10	3.57	56.15	0.50	24.84
08/25/87	645	3.93	240.80	3.50	55.66	0.50	24.84
08/25/87	700	3.03	219.70	3.91	55.84	0.50	24.84
08/25/87	715	2.71	227.10	12.56	55.96	0.50	24.84
08/25/87	730	2.05	310.90	7.48	55.92	0.50	24.84
08/25/87	745	1.68	2.15	11.39	55.83	0.51	24.84
08/25/87	800	2.81	346.50	11.39	55.87	0.51	24.85
08/25/87	815	2.94	346.70	7.89	56.82	0.51	24.85
08/25/87	830	2.69	26.70	5.49	57.03	0.51	24.86
08/25/87	845	2.26	21.28	14.96	57.13	0.51	24.87
08/25/87	900	2.97	352.90	12.97	57.14	0.51	24.87
08/25/87	915	2.64	353.80	4.73	57.21	0.51	24.87
08/25/87	930	3.57	342.00	7.82	57.28	0.51	24.88
08/25/87	945	2.03	316.40	8.99	57.49	0.51	24.88
08/25/87	1000	1.00	347.00	16.53	57.95	0.51	24.88
08/25/87	1015	0.65	305.50	18.86	58.39	0.51	24.88
08/25/87	1030	1.52	215.30	8.23	58.32	0.51	24.88
08/25/87	1045	3.74	225.80	11.04	58.69	0.51	24.88
08/25/87	1100	4.26	232.20	7.47	59.27	0.51	24.88
08/25/87	1115	4.30	231.80	7.47	60.83	0.51	24.88
08/25/87	1130	3.79	191.50	13.02	62.13	0.51	24.89
08/25/87	1145	3.53	179.70	16.57	63.12	0.51	24.89
08/25/87	1200	3.43	186.20	10.67	64.18	0.51	24.88
08/25/87	1215	5.00	137.80	14.22	64.73	0.51	24.88
08/25/87	1230	3.74	161.70	52.64	65.18	0.51	24.88
08/25/87	1245	5.79	145.90	19.34	66.28	0.51	24.88
08/25/87	1300	6.44	123.70	25.15	66.70	0.51	24.88
08/25/87	1315	4.68	171.70	27.53	67.03	0.51	24.88
08/25/87	1330	4.95	169.10	33.88	67.71	0.51	24.88
08/25/87	1345	4.92	156.30	37.77	68.35	0.51	24.88
08/25/87	1400	5.44	116.00	27.59	69.44	0.51	24.88
08/25/87	1415	6.65	122.10	13.86	69.12	0.51	24.88
08/25/87	1430	7.06	138.00	27.18	70.10	0.51	24.87
08/25/87	1445	6.61	152.10	19.39	69.93	0.51	24.86
08/25/87	1500	8.40	116.30	8.40	70.00	0.51	24.86
08/25/87	1515	10.81	126.20	14.27	70.00	0.51	24.87
08/25/87	1530	8.52	121.90	14.62	70.80	0.51	24.86
08/25/87	1545	10.33	140.40	13.46	71.60	0.51	24.85
08/25/87	1600	9.04	120.90	25.21	72.60	0.51	24.85
08/25/87	1615	10.18	107.70	17.42	73.10	0.51	24.84

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08/25/87	1630	8.22	113.30	15.43	72.90	0.51	24.84
08/25/87	1645	6.26	77.10	38.59	74.40	0.51	24.83
08/25/87	1700	7.42	62.85	8.74	73.80	0.51	24.83
08/25/87	1715	6.68	80.80	18.58	75.20	0.51	24.83
08/25/87	1730	6.86	74.10	19.40	74.60	0.51	24.83
08/25/87	1745	7.63	73.80	45.62	74.90	0.51	24.82
08/25/87	1800	5.69	63.32	8.40	75.10	0.51	24.81
08/25/87	1815	6.88	96.30	18.92	74.30	0.51	24.82
08/25/87	1830	6.47	81.90	9.91	73.90	0.51	24.82
08/25/87	1845	8.98	85.10	4.03	73.00	0.51	24.82
08/25/87	1900	9.87	79.70	5.54	72.70	0.51	24.78
08/25/87	1915	8.35	97.10	4.86	72.40	0.51	24.77
08/25/87	1930	10.78	137.70	6.77	71.10	0.51	24.77
08/25/87	1945	18.35	162.30	3.97	67.26	0.51	24.81
08/25/87	2000	21.07	161.30	3.63	64.31	0.51	24.82
08/25/87	2015	14.13	172.30	7.94	63.87	0.51	24.83
08/25/87	2030	18.16	254.10	2.81	61.41	0.54	24.87
08/25/87	2045	13.82	207.80	4.38	57.64	0.77	24.88
08/25/87	2100	17.20	161.80	2.40	57.16	0.79	24.87
08/25/87	2115	16.31	141.80	4.73	58.72	0.81	24.86
08/25/87	2130	8.89	116.40	9.05	58.19	0.82	24.87
08/25/87	2145	3.68	37.61	20.84	57.99	0.82	24.88
08/25/87	2200	5.53	84.90	9.80	58.38	0.82	24.89
08/25/87	2215	7.73	66.38	6.65	57.63	0.82	24.89
08/25/87	2230	6.22	97.60	7.89	57.04	0.82	24.89
08/25/87	2245	4.57	95.10	5.49	57.22	0.82	24.90
08/25/87	2300	2.09	35.67	18.04	57.02	0.82	24.92
08/25/87	2315	4.59	355.40	7.89	56.84	0.82	24.93
08/25/87	2330	5.32	355.00	8.99	56.73	0.82	24.94
08/25/87	2345	3.60	27.96	5.08	56.70	0.82	24.94
08/26/87	0	4.56	44.49	3.16	56.78	0.82	24.94
08/26/87	15	2.25	32.07	13.79	56.69	0.82	24.94
08/26/87	30	3.18	36.59	5.56	56.93	0.82	24.94
08/26/87	45	0.93	359.60	13.38	57.02	0.82	24.95
08/26/87	100	3.67	274.90	10.63	57.26	0.82	24.96
08/26/87	115	3.66	297.80	3.16	57.52	0.82	24.96
08/26/87	130	6.49	307.70	3.98	56.88	0.83	24.96
08/26/87	145	6.27	310.80	5.90	55.22	0.85	24.96
08/26/87	200	2.59	270.90	7.89	55.22	0.87	24.98
08/26/87	215	1.41	220.70	19.62	55.22	0.87	24.98
08/26/87	230	3.44	180.40	7.14	55.31	0.88	24.98
08/26/87	245	0.79	155.00	1.17	55.08	0.88	24.98
08/26/87	300	1.49	287.80	3.16	54.86	0.88	24.98
08/26/87	315	3.38	303.10	2.74	54.93	0.88	24.98
08/26/87	330	4.27	299.60	1.99	55.26	0.88	24.98
08/26/87	345	3.59	298.90	10.98	55.49	0.88	24.98



RMA METEOROLOGICAL DATA  
FROM STATION M1  
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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
08/26/87	400	2.76	353.20	4.32	55.49	0.88	24.98
08/26/87	415	0.41	3.27	0.34	55.13	0.88	24.97
08/26/87	430	0.59	345.70	16.54	55.00	0.88	24.97
08/26/87	445	2.74	332.90	2.75	55.07	0.88	24.97
08/26/87	500	3.69	335.70	1.92	54.97	0.88	24.97
08/26/87	515	3.46	327.10	5.08	55.12	0.88	24.96
08/26/87	530	3.35	286.70	3.16	55.17	0.88	24.96
08/26/87	545	3.46	298.80	3.91	55.36	0.88	24.96
08/26/87	600	2.75	307.70	5.49	55.36	0.88	24.96
08/26/87	615	3.43	321.60	3.16	55.78	0.88	24.96
08/26/87	630	2.41	343.40	9.40	55.50	0.88	24.96
08/26/87	645	0.78	359.90	12.56	55.43	0.88	24.96
08/26/87	700	1.61	333.80	10.22	55.56	0.88	24.96
08/26/87	715	3.11	336.00	1.17	55.64	0.88	24.96
08/26/87	730	2.46	345.90	5.49	55.67	0.88	24.97
08/26/87	745	1.80	0.72	10.64	55.60	0.88	24.97
08/26/87	800	4.17	339.90	4.32	55.29	0.88	24.97
08/26/87	815	7.20	333.20	5.49	55.04	0.88	24.98
08/26/87	830	7.32	334.90	3.50	54.85	0.88	24.99
08/26/87	845	6.89	352.80	7.07	54.69	0.88	24.99
08/26/87	900	7.22	3.99	5.49	54.15	0.88	24.99
08/26/87	915	6.79	14.55	4.74	53.91	0.88	24.99
08/26/87	930	6.06	10.66	7.82	53.57	0.89	25.01
08/26/87	945	5.87	14.97	5.49	53.14	0.89	25.01
08/26/87	1000	4.56	356.50	7.41	52.89	0.90	25.01
08/26/87	1015	4.60	3.37	7.82	52.81	0.94	25.02
08/26/87	1030	4.93	349.70	10.23	52.79	0.94	25.03
08/26/87	1045	5.35	350.60	9.81	52.53	0.94	25.03
08/26/87	1100	6.58	350.50	8.24	52.34	0.94	25.03
08/26/87	1115	5.52	10.03	6.25	52.32	0.94	25.03
08/26/87	1130	4.78	16.30	7.82	52.64	0.94	25.03
08/26/87	1145	4.22	10.78	9.81	52.85	0.94	25.03
08/26/87	1200	4.90	27.71	8.72	53.52	0.94	25.04
08/26/87	1215	5.65	36.81	5.56	54.14	0.94	25.05
08/26/87	1230	6.54	21.58	5.90	54.20	0.94	25.05
08/26/87	1245	6.82	34.84	16.94	55.44	0.94	25.05
08/26/87	1300	4.83	25.31	8.29	56.86	0.94	25.04
08/26/87	1315	5.74	29.09	5.96	55.94	0.94	25.04
08/26/87	1330	5.19	44.24	14.25	57.15	0.94	25.05
08/26/87	1345	4.68	13.47	14.66	57.56	0.94	25.04
08/26/87	1400	2.88	0.45	26.37	57.79	0.94	25.04
08/26/87	1415	2.31	62.95	36.92	58.48	0.94	25.04
08/26/87	1430	2.82	124.10	26.71	58.92	0.94	25.04
08/26/87	1445	3.30	105.30	25.54	59.74	0.94	25.04
08/26/87	1500	3.18	151.00	25.20	60.24	0.94	25.03
08/26/87	1515	3.38	118.30	57.45	61.00	0.94	25.03

RMA METEOROLOGICAL DATA  
FROM STATION M1  
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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
08/26/87	1530	5.44	69.67	20.94	62.74	0.94	25.02
08/26/87	1545	7.05	66.77	14.71	63.09	0.94	25.01
08/26/87	1600	6.10	78.90	24.83	61.91	0.94	25.01
08/26/87	1615	5.23	86.00	16.97	62.37	0.94	25.01
08/26/87	1630	6.16	68.77	14.23	62.86	0.94	25.01
08/26/87	1645	3.73	87.30	58.62	65.20	0.94	25.01
08/26/87	1700	7.49	60.07	12.65	62.73	0.94	24.99
08/26/87	1715	6.68	65.25	15.39	64.23	0.94	24.99
08/26/87	1730	6.60	88.50	20.93	65.00	0.94	24.99
08/26/87	1745	6.42	105.90	13.89	65.34	0.94	24.98
08/26/87	1800	6.98	66.75	16.96	64.42	0.94	24.98
08/26/87	1815	6.35	87.10	7.93	64.40	0.94	24.98
08/26/87	1830	8.48	76.30	13.48	64.28	0.94	24.97
08/26/87	1845	9.43	77.70	5.61	63.55	0.94	24.98
08/26/87	1900	7.48	104.70	15.81	65.18	0.94	24.99
08/26/87	1915	11.85	85.50	4.38	64.27	0.94	24.97
08/26/87	1930	11.02	88.50	7.94	64.00	0.94	24.97
08/26/87	1945	10.88	84.20	5.96	64.62	0.94	24.97
08/26/87	2000	8.97	66.47	10.68	64.35	0.94	24.97
08/26/87	2015	9.53	77.90	3.22	63.66	0.94	24.99
08/26/87	2030	15.29	58.11	5.55	61.37	0.94	24.99
08/26/87	2045	17.50	60.90	4.38	57.79	0.94	24.99
08/26/87	2100	14.84	61.44	3.97	56.30	0.94	25.00
08/26/87	2115	12.96	55.05	7.13	55.65	0.94	25.01
08/26/87	2130	10.63	71.80	5.48	55.19	0.95	25.03
08/26/87	2145	11.42	76.80	5.49	54.78	0.97	25.03
08/26/87	2200	6.96	92.10	7.06	54.42	0.99	25.04
08/26/87	2215	8.10	63.32	7.48	53.73	0.99	25.05
08/26/87	2230	7.46	40.45	7.41	53.47	0.99	25.06
08/26/87	2245	9.16	46.59	4.32	52.80	1.00	25.07
08/26/87	2300	5.63	33.38	9.81	52.34	1.00	25.07
08/26/87	2315	4.16	26.90	6.72	52.66	1.00	25.08
08/26/87	2330	4.83	42.92	9.81	52.48	1.00	25.08
08/26/87	2345	1.56	52.13	10.98	52.14	1.00	25.09
08/27/87	0	1.66	102.90	9.81	52.02	1.00	25.09
08/27/87	15	2.37	19.15	8.24	52.00	1.00	25.10
08/27/87	30	3.14	20.67	5.49	51.93	1.00	25.10
08/27/87	45	0.94	219.20	18.05	51.96	1.00	25.10
08/27/87	100	3.69	164.80	7.07	52.11	1.00	25.10
08/27/87	115	2.84	168.50	2.75	52.08	1.00	25.10
08/27/87	130	3.98	173.80	2.33	52.09	1.00	25.10
08/27/87	145	4.88	186.20	1.99	52.28	1.00	25.10
08/27/87	200	3.62	189.20	5.08	52.41	1.00	25.10
08/27/87	215	2.52	208.00	5.83	52.39	1.00	25.10
08/27/87	230	2.29	218.50	3.57	52.57	1.00	25.10
08/27/87	245	2.32	228.30	6.25	52.74	1.00	25.10

RMA METEOROLOGICAL DATA  
FROM STATION M1  
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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
08/27/87	300	2.69	240.20	3.50	52.62	1.00	25.10
08/27/87	315	2.75	221.00	3.16	52.62	1.00	25.10
08/27/87	330	2.46	215.70	4.33	52.48	1.00	25.10
08/27/87	345	2.24	233.00	3.91	52.32	1.00	25.10
08/27/87	400	1.25	214.20	5.49	52.22	1.00	25.10
08/27/87	415	1.02	168.70	10.99	52.04	1.00	25.10
08/27/87	430	2.97	152.30	10.16	52.25	1.00	25.09
08/27/87	445	2.29	119.90	8.65	51.05	1.00	25.09
08/27/87	500	1.51	135.80	11.74	51.23	1.00	25.09
08/27/87	515	3.19	148.30	7.42	51.58	1.00	25.09
08/27/87	530	2.41	138.60	5.84	51.67	1.00	25.09
08/27/87	545	4.14	160.10	3.09	51.94	1.00	25.09
08/27/87	600	5.16	144.40	4.33	51.91	1.00	25.09
08/27/87	615	5.40	157.10	5.49	51.94	1.00	25.09
08/27/87	630	3.81	187.20	1.92	51.53	1.00	25.09
08/27/87	645	3.37	202.80	1.51	51.52	1.00	25.09
08/27/87	700	2.63	205.40	2.68	51.28	1.00	25.09
08/27/87	715	3.04	73.60	11.33	49.88	1.00	25.09
08/27/87	730	4.67	141.90	3.50	50.37	1.00	25.09
08/27/87	745	3.00	140.60	14.15	50.86	1.00	25.09
08/27/87	800	3.08	41.86	2.27	48.61	1.00	25.09
08/27/87	815	3.18	57.06	1.92	48.54	1.00	25.09
08/27/87	830	3.83	80.70	5.01	48.87	1.00	25.09
08/27/87	845	7.03	92.90	3.16	49.15	1.00	25.09
08/27/87	900	6.33	96.90	2.27	49.06	1.00	25.09
08/27/87	915	6.10	104.30	2.68	49.43	1.00	25.10
08/27/87	930	4.28	112.20	3.50	50.00	1.00	25.10
08/27/87	945	4.64	115.70	3.50	50.73	1.00	25.09
08/27/87	1000	5.20	121.70	6.66	51.89	1.00	25.09
08/27/87	1015	5.13	128.40	7.07	52.65	1.00	25.09
08/27/87	1030	7.59	109.90	6.25	53.12	1.00	25.09
08/27/87	1045	7.67	104.20	8.65	53.30	1.00	25.09
08/27/87	1100	7.41	112.00	6.72	54.49	1.00	25.09
08/27/87	1115	6.47	99.50	9.87	54.64	1.00	25.09
08/27/87	1130	5.02	89.00	10.62	55.47	1.00	25.09
08/27/87	1145	5.60	85.40	7.61	56.30	1.00	25.09
08/27/87	1200	6.03	95.30	13.49	57.13	1.00	25.09
08/27/87	1215	3.54	89.20	40.47	57.29	1.00	25.09
08/27/87	1230	1.86	77.80	18.56	58.43	1.00	25.09
08/27/87	1245	3.29	79.50	27.53	58.43	1.00	25.09
08/27/87	1300	3.11	80.40	29.93	58.82	1.00	25.08
08/27/87	1315	2.96	65.44	35.06	59.79	1.00	25.08
08/27/87	1330	3.50	47.88	14.24	60.82	1.00	25.08
08/27/87	1345	5.46	78.70	18.21	61.12	1.00	25.08
08/27/87	1400	5.38	62.68	18.54	61.25	1.00	25.08
08/27/87	1415	4.01	27.65	45.22	62.46	1.00	25.07

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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
08/27/87	1430	3.21	122.90	51.48	63.77	1.00	25.06
08/27/87	1445	5.25	65.36	28.29	63.64	1.00	25.03
08/27/87	1500	4.56	164.50	28.70	63.88	1.00	25.02
08/27/87	1515	3.88	171.90	34.22	65.34	1.00	25.01
08/27/87	1530	4.60	92.80	17.76	65.85	1.00	25.02
08/27/87	1545	5.47	67.39	20.96	66.11	1.00	25.02
08/27/87	1600	6.04	45.99	42.87	65.99	1.00	25.00
08/27/87	1615	5.35	18.90	41.71	66.41	1.00	25.00
08/27/87	1630	6.12	353.00	20.14	65.29	1.00	24.99
08/27/87	1645	6.92	356.80	9.97	66.16	1.00	25.02
08/27/87	1700	7.13	20.09	15.03	66.38	1.00	25.01
08/27/87	1715	8.93	48.02	15.37	66.89	1.00	24.97
08/27/87	1730	7.65	60.98	18.18	67.77	1.00	24.96
08/27/87	1745	8.21	39.01	13.05	66.89	1.00	24.96
08/27/87	1800	9.54	47.09	11.48	67.88	1.00	24.92
08/27/87	1815	8.28	11.61	18.11	66.06	1.00	24.95
08/27/87	1830	10.37	37.62	9.91	66.61	1.00	25.00
08/27/87	1845	8.84	60.20	14.22	66.43	1.00	25.00
08/27/87	1900	10.95	76.50	11.42	66.31	1.00	24.99
08/27/87	1915	13.04	52.54	17.31	67.45	1.00	24.99
08/27/87	1930	14.20	41.25	11.84	67.28	1.00	24.99
08/27/87	1945	11.22	46.49	14.64	67.46	1.00	24.99
08/27/87	2000	8.52	33.93	7.53	67.61	1.00	24.99
08/27/87	2015	10.60	29.76	7.53	67.29	1.00	25.00
08/27/87	2030	9.90	53.65	7.53	67.89	1.00	25.00
08/27/87	2045	7.77	70.60	25.93	67.70	1.00	25.00
08/27/87	2100	8.14	146.70	4.79	66.95	1.00	24.99
08/27/87	2115	6.30	163.20	4.79	65.44	1.00	24.99
08/27/87	2130	3.81	175.40	3.22	64.50	1.00	25.00
08/27/87	2145	2.62	181.90	2.40	64.05	1.00	25.00
08/27/87	2200	2.55	167.70	2.81	63.84	1.00	25.00
08/27/87	2215	3.16	157.60	1.99	63.82	1.00	25.00
08/27/87	2230	5.68	140.90	3.15	63.34	1.00	25.00
08/27/87	2245	7.35	151.50	4.73	62.29	1.00	25.01
08/27/87	2300	8.14	162.20	1.65	60.97	1.00	25.02
08/27/87	2315	7.79	166.10	1.23	61.02	1.00	25.03
08/27/87	2330	6.83	171.00	2.40	61.12	1.00	25.04
08/27/87	2345	6.03	181.00	1.65	61.07	1.00	25.04
08/28/87	0	5.35	228.40	10.29	59.22	1.00	25.04
08/28/87	15	7.13	216.50	2.81	59.90	1.00	25.04
08/28/87	30	5.65	211.90	3.57	58.77	1.00	25.04
08/28/87	45	5.37	203.50	3.98	58.76	1.00	25.04
08/28/87	100	4.20	180.90	4.32	58.62	1.00	25.04
08/28/87	115	4.57	167.50	6.72	57.49	1.00	25.05
08/28/87	130	6.38	158.10	4.73	55.01	1.00	25.05
08/28/87	145	6.34	178.60	3.57	55.16	1.00	25.05

RMA METEOROLOGICAL DATA  
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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
08/28/87	200	6.51	189.30	3.57	55.15	1.00	25.05
08/28/87	215	6.94	189.00	1.58	54.84	1.00	25.05
08/28/87	230	6.68	192.70	2.75	54.63	1.00	25.05
08/28/87	245	7.18	198.70	2.33	54.56	1.00	25.05
08/28/87	300	7.09	203.30	1.99	54.52	1.00	25.05
08/28/87	315	7.01	197.20	2.33	54.31	1.00	25.05
08/28/87	330	6.56	192.40	1.99	54.27	1.00	25.05
08/28/87	345	6.52	195.60	2.75	54.23	1.00	25.05
08/28/87	400	5.28	194.70	2.33	53.91	1.00	25.05
08/28/87	415	4.79	202.40	3.50	53.68	1.00	25.05
08/28/87	430	4.01	202.00	3.09	53.01	1.00	25.04
08/28/87	445	4.39	189.50	3.50	53.05	1.00	25.04
08/28/87	500	4.53	193.90	1.17	52.91	1.00	25.04
08/28/87	515	5.33	197.10	2.33	52.84	1.00	25.04
08/28/87	530	6.03	202.30	2.33	52.90	1.00	25.04
08/28/87	545	6.35	201.20	1.51	51.89	1.00	25.03
08/28/87	600	5.89	202.40	1.92	51.29	1.00	25.03
08/28/87	615	6.72	200.20	3.09	51.28	1.00	25.03
08/28/87	630	6.83	189.10	2.68	51.05	1.00	25.03
08/28/87	645	6.64	196.40	4.67	51.42	1.00	25.03
08/28/87	700	6.39	199.90	4.67	51.26	1.00	25.03
08/28/87	715	6.42	193.80	5.84	51.39	1.00	25.03
08/28/87	730	7.67	196.00	1.17	51.33	1.00	25.03
08/28/87	745	4.00	195.00	4.74	49.82	1.00	25.02
08/28/87	800	7.54	191.90	2.33	51.04	1.00	25.03
08/28/87	815	6.00	195.10	1.92	50.11	1.00	25.03
08/28/87	830	5.50	198.20	3.57	49.93	1.00	25.03
08/28/87	845	4.81	203.30	4.33	50.17	1.00	25.03
08/28/87	900	4.21	207.50	3.50	50.42	1.00	25.03
08/28/87	915	5.15	198.20	3.09	50.78	1.00	25.03
08/28/87	930	5.88	194.20	2.33	51.52	1.00	25.03
08/28/87	945	6.26	197.80	2.75	53.16	1.00	25.03
08/28/87	1000	6.21	201.00	4.32	54.36	1.00	25.03
08/28/87	1015	7.25	206.40	3.15	55.88	1.00	25.02
08/28/87	1030	7.58	209.30	4.73	57.58	1.00	25.02
08/28/87	1045	7.74	212.70	5.21	59.15	1.00	25.02
08/28/87	1100	6.48	214.20	9.93	60.85	1.00	25.02
08/28/87	1115	7.04	224.00	6.02	62.21	1.00	25.02
08/28/87	1130	5.91	226.00	10.33	63.86	1.00	25.01
08/28/87	1145	5.67	219.30	7.18	64.97	1.00	25.01
08/28/87	1200	4.12	211.60	22.49	67.04	1.00	25.00
08/28/87	1215	4.75	212.90	17.36	68.06	1.00	24.97
08/28/87	1230	4.89	210.20	10.72	69.19	1.00	25.01
08/28/87	1245	4.45	209.40	20.55	70.80	1.00	25.01
08/28/87	1300	4.40	196.60	13.10	71.60	1.00	25.00
08/28/87	1315	4.63	201.80	12.69	72.70	1.00	25.01

RMA METEOROLOGICAL DATA  
FROM STATION M1  
07/17 - 10/08, 1987

DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
08/28/87	1330	5.25	182.10	22.92	73.50	1.00	25.00
08/28/87	1345	5.48	168.20	27.21	73.70	1.00	24.99
08/28/87	1400	7.12	123.70	8.39	74.40	1.00	24.99
08/28/87	1415	4.80	80.60	38.60	74.60	1.00	24.98
08/28/87	1430	4.86	161.60	22.16	75.10	1.00	24.98
08/28/87	1445	6.41	82.10	13.50	75.50	1.00	24.97
08/28/87	1500	6.79	71.50	24.07	75.20	1.00	24.97
08/28/87	1515	5.76	143.10	10.36	75.80	1.00	24.96
08/28/87	1530	7.03	129.40	38.59	75.40	1.00	24.96
08/28/87	1545	5.33	129.90	37.02	76.00	1.00	24.96
08/28/87	1600	4.56	86.50	58.63	77.00	1.00	24.95
08/28/87	1615	6.34	74.30	22.98	77.40	1.00	24.95
08/28/87	1630	5.09	79.70	23.32	77.10	1.00	24.95
08/28/87	1645	6.49	83.40	19.03	77.00	1.00	24.94
08/28/87	1700	5.76	32.93	30.76	77.00	1.00	24.94
08/28/87	1715	6.47	79.40	16.64	77.30	1.00	24.94
08/28/87	1730	6.12	88.70	7.23	76.70	1.00	24.92
08/28/87	1745	2.60	136.30	51.52	75.60	1.00	24.92
08/28/87	1800	1.90	299.90	51.53	76.60	1.00	24.93
08/28/87	1815	3.29	48.93	7.58	75.30	1.00	24.93
08/28/87	1830	10.59	322.70	12.64	73.10	1.00	24.93
08/28/87	1845	17.85	318.00	6.36	68.37	1.00	24.95
08/28/87	1900	18.62	313.60	4.85	67.14	1.00	24.95
08/28/87	1915	18.50	309.80	6.36	67.72	1.00	24.96
08/28/87	1930	17.25	313.90	5.61	68.87	1.00	24.96
08/28/87	1945	12.45	302.90	4.45	67.48	1.00	24.97
08/28/87	2000	9.77	292.40	5.20	67.13	1.00	24.97
08/28/87	2015	9.62	266.60	4.79	66.95	1.00	24.97
08/28/87	2030	8.33	255.10	3.63	67.55	1.00	24.97
08/28/87	2045	5.83	238.50	4.79	67.22	1.00	24.97
08/28/87	2100	7.24	237.00	4.79	67.05	1.00	24.97
08/28/87	2115	7.33	219.80	10.68	66.79	1.00	24.96
08/28/87	2130	6.58	196.70	8.29	67.53	1.00	24.96
08/28/87	2145	10.71	211.40	17.74	67.80	1.00	24.96
08/28/87	2200	9.06	240.90	3.56	65.42	1.00	24.97
08/28/87	2215	11.18	232.70	2.40	64.57	1.00	24.96
08/28/87	2230	13.45	233.60	3.15	64.60	1.00	24.97
08/28/87	2245	17.19	218.70	3.97	64.25	1.00	24.97
08/28/87	2300	17.99	213.70	2.74	62.77	1.00	24.97
08/28/87	2315	16.34	214.90	2.81	61.63	1.00	24.97
08/28/87	2330	16.01	210.50	2.81	61.18	1.00	24.98
08/28/87	2345	14.41	202.20	2.81	60.20	1.00	24.98
08/29/87	0	14.21	213.80	3.22	60.45	1.00	24.98
08/29/87	15	14.63	214.00	3.56	61.06	1.00	24.98
08/29/87	30	10.95	203.00	4.73	60.07	1.00	24.98
08/29/87	45	8.70	180.40	3.15	58.62	1.00	24.98

RMA METEOROLOGICAL DATA  
FROM STATION M1  
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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
08/29/87	100	10.19	199.50	2.40	58.80	1.00	24.98
08/29/87	115	9.52	197.00	2.40	57.58	1.00	24.98
08/29/87	130	9.35	200.70	1.99	57.29	1.00	24.98
08/29/87	145	8.94	199.10	2.40	56.90	1.00	24.98
08/29/87	200	7.24	197.50	1.58	56.03	1.00	24.98
08/29/87	215	8.38	199.30	1.99	56.28	1.00	24.98
08/29/87	230	8.84	195.20	2.75	56.62	1.00	24.98
08/29/87	245	9.08	195.90	1.92	56.36	1.00	24.98
08/29/87	300	9.45	197.40	2.33	56.04	1.00	24.98
08/29/87	315	9.00	197.70	1.99	55.70	1.00	24.98
08/29/87	330	7.46	201.00	1.99	55.29	1.00	24.98
08/29/87	345	7.74	191.80	1.92	54.68	1.00	24.98
08/29/87	400	9.74	187.20	1.17	55.01	1.00	24.98
08/29/87	415	8.20	192.60	2.75	54.90	1.00	24.98
08/29/87	430	8.89	197.40	1.92	54.82	1.00	24.97
08/29/87	445	8.34	195.70	1.58	54.37	1.00	24.97
08/29/87	500	8.19	194.50	2.33	54.20	1.00	24.97
08/29/87	515	8.34	192.80	1.92	54.14	1.00	24.97
08/29/87	530	8.48	186.70	1.24	54.09	1.00	24.97
08/29/87	545	8.63	187.90	1.99	54.13	1.00	24.97
08/29/87	600	9.60	191.40	1.58	54.25	1.00	24.97
08/29/87	615	9.01	189.50	1.58	53.99	1.00	24.97
08/29/87	630	9.24	184.80	1.17	53.42	1.00	24.97
08/29/87	645	9.84	183.30	1.51	53.44	1.00	24.97
08/29/87	700	9.64	189.30	1.51	53.72	1.00	24.97
08/29/87	715	8.75	192.80	2.33	53.55	1.00	24.97
08/29/87	730	8.26	194.20	2.68	53.56	1.00	24.97
08/29/87	745	7.69	201.20	1.51	53.12	1.00	24.97
08/29/87	800	6.75	203.40	1.99	52.05	1.00	24.97
08/29/87	815	6.79	201.30	1.51	52.11	1.00	24.97
08/29/87	830	7.17	202.40	1.58	51.95	1.00	24.99
08/29/87	845	6.84	201.30	0.82	52.13	1.00	24.99
08/29/87	900	6.71	206.00	1.99	52.57	1.00	24.98
08/29/87	915	6.77	217.50	1.17	52.63	1.00	25.00
08/29/87	930	6.25	214.20	3.91	52.96	1.00	25.00
08/29/87	945	5.62	208.30	4.32	55.13	1.00	24.99
08/29/87	1000	6.02	204.50	4.73	57.11	1.00	24.99
08/29/87	1015	6.40	197.20	3.15	58.91	1.00	24.99
08/29/87	1030	7.88	197.20	3.22	59.94	1.00	24.99
08/29/87	1045	7.63	193.90	3.22	61.29	1.00	24.99
08/29/87	1100	6.34	196.10	9.51	63.29	1.00	24.99
08/29/87	1115	4.75	208.50	17.38	65.32	1.00	24.98
08/29/87	1130	4.35	200.30	16.96	66.45	1.00	24.98
08/29/87	1145	3.38	232.30	13.47	68.01	1.00	24.98
08/29/87	1200	2.76	207.00	27.53	69.56	1.00	24.98
08/29/87	1215	2.45	235.20	69.17	70.90	1.00	24.98

RMA METEOROLOGICAL DATA  
- FROM STATION M1  
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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
08/29/87	1230	3.20	216.90	31.12	72.10	1.00	24.97
08/29/87	1245	2.58	245.40	26.40	72.80	1.00	24.91
08/29/87	1300	2.90	230.10	39.00	73.60	1.00	24.07
08/29/87	1315	2.50	281.30	54.73	74.60	1.00	24.96
08/29/87	1330	4.00	355.40	9.20	75.10	1.00	24.96
08/29/87	1345	2.99	1.43	24.46	76.10	1.00	24.96
08/29/87	1400	4.56	342.80	34.67	76.00	1.00	24.96
08/29/87	1415	5.66	26.08	13.55	76.00	1.00	24.96
08/29/87	1430	6.61	73.60	9.60	76.40	1.00	24.95
08/29/87	1445	6.19	84.70	24.86	76.80	1.00	24.94
08/29/87	1500	5.93	355.00	28.00	77.60	1.00	24.94
08/29/87	1515	7.84	70.90	22.55	77.70	1.00	24.94
08/29/87	1530	6.27	43.65	11.51	77.90	1.00	24.93
08/29/87	1545	6.27	13.37	37.82	78.00	1.00	24.93
08/29/87	1600	7.24	53.17	11.18	78.70	1.00	24.93
08/29/87	1615	7.13	42.32	14.31	78.70	1.00	24.93
08/29/87	1630	5.28	329.00	21.33	78.90	1.00	24.92
08/29/87	1645	7.18	45.58	15.47	79.60	1.00	24.92
08/29/87	1700	6.63	48.14	9.13	79.30	1.00	24.92
08/29/87	1715	8.29	51.66	17.04	79.20	1.00	24.92
08/29/87	1730	6.08	50.92	16.30	79.80	1.00	24.93
08/29/87	1745	6.92	26.83	14.66	79.50	1.00	24.92
08/29/87	1800	7.02	33.47	11.94	80.00	1.00	24.91
08/29/87	1815	8.08	48.96	6.82	79.80	1.00	24.91
08/29/87	1830	4.66	35.40	33.90	80.30	1.00	24.92
08/29/87	1845	7.28	47.68	10.37	80.10	1.00	24.92
08/29/87	1900	4.88	33.56	31.52	80.30	1.00	24.92
08/29/87	1915	3.69	40.10	43.26	80.70	1.00	24.92
08/29/87	1930	4.29	42.47	33.10	80.60	1.00	24.92
08/29/87	1945	3.85	47.99	7.99	80.80	1.00	24.92
08/29/87	2000	4.17	47.98	9.15	80.70	1.00	24.92
08/29/87	2015	4.46	39.56	9.97	80.30	1.00	24.92
08/29/87	2030	2.07	19.30	17.01	80.30	1.00	24.91
08/29/87	2045	0.43	316.80	19.74	77.60	1.00	24.92
08/29/87	2100	1.66	336.30	1.64	76.70	1.00	24.92
08/29/87	2115	1.02	6.35	10.25	75.50	1.00	24.93
08/29/87	2130	0.38	305.70	1.98	74.30	1.00	24.94
08/29/87	2145	1.42	250.60	6.77	74.20	1.00	24.94
08/29/87	2200	1.79	265.10	4.38	74.20	1.00	24.94
08/29/87	2215	2.13	252.60	4.38	73.70	1.00	24.94
08/29/87	2230	2.18	229.50	6.71	74.00	1.00	24.95
08/29/87	2245	1.55	208.30	13.01	73.50	1.00	24.96
08/29/87	2300	7.56	123.10	2.40	71.70	1.00	24.97
08/29/87	2315	6.97	123.00	1.64	74.40	1.00	24.97
08/29/87	2330	5.07	137.60	2.06	74.00	1.00	24.97
08/29/87	2345	10.20	136.10	1.64	68.41	1.00	24.98



RMA METEOROLOGICAL DATA  
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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
08/30/87	0	11.80	140.20	1.65	65.12	1.00	24.98
08/30/87	15	12.91	144.80	2.81	63.22	1.00	24.98
08/30/87	30	10.38	172.50	1.65	63.88	1.00	24.99
08/30/87	45	9.12	181.10	3.98	66.02	1.00	24.99
08/30/87	100	7.21	188.50	2.40	64.75	1.00	24.99
08/30/87	115	6.76	186.70	2.40	64.98	1.00	24.99
08/30/87	130	7.22	181.20	4.73	64.97	1.00	24.99
08/30/87	145	8.68	166.40	1.58	64.61	1.00	24.99
08/30/87	200	9.75	167.50	1.17	64.61	1.00	24.99
08/30/87	215	8.87	182.50	1.58	64.88	1.00	25.00
08/30/87	230	5.55	209.20	3.15	61.43	1.00	25.01
08/30/87	245	7.14	268.40	4.32	59.74	1.00	25.01
08/30/87	300	9.69	312.00	4.32	61.25	1.00	25.02
08/30/87	315	13.32	325.50	4.73	61.65	1.00	25.04
08/30/87	330	13.42	336.00	3.15	60.27	1.00	25.04
08/30/87	345	14.41	341.20	4.73	59.64	1.00	25.05
08/30/87	400	13.11	341.80	4.73	58.86	1.00	25.07
08/30/87	415	13.44	337.50	2.33	58.50	1.00	25.08
08/30/87	430	12.26	341.30	2.74	57.84	1.00	25.09
08/30/87	445	12.40	341.40	2.40	58.13	1.00	25.10
08/30/87	500	11.88	340.80	3.16	58.16	1.00	25.11
08/30/87	515	11.08	341.20	2.74	58.06	1.00	25.12
08/30/87	530	10.17	342.30	2.74	57.62	1.00	25.12
08/30/87	545	8.86	342.50	2.74	57.01	1.00	25.13
08/30/87	600	7.92	338.40	4.32	57.52	1.00	25.14
08/30/87	615	7.47	338.10	2.33	57.91	1.00	25.14
08/30/87	630	6.42	340.20	3.16	57.75	1.00	25.14
08/30/87	645	5.75	341.70	2.33	57.48	1.00	25.15
08/30/87	700	4.46	345.70	8.65	57.10	1.00	25.15
08/30/87	715	2.62	1.53	3.16	56.81	1.00	25.15
08/30/87	730	3.56	24.15	7.48	56.48	1.00	25.15
08/30/87	745	7.64	43.77	1.58	56.05	1.00	25.15
08/30/87	800	8.02	51.66	1.92	55.42	1.00	25.15
08/30/87	815	6.32	52.83	3.09	54.83	1.00	25.15
08/30/87	830	5.11	61.07	4.25	53.94	1.00	25.16
08/30/87	845	4.50	57.05	5.08	54.42	1.00	25.16
08/30/87	900	4.25	67.48	2.33	54.57	1.00	25.17
08/30/87	915	4.13	81.00	4.67	54.85	1.00	25.17
08/30/87	930	3.96	86.00	6.25	55.30	1.00	25.17
08/30/87	945	5.40	79.50	5.90	56.33	1.00	25.17
08/30/87	1000	7.37	88.20	5.90	57.02	1.00	25.17
08/30/87	1015	7.42	88.00	8.71	57.24	1.00	25.16
08/30/87	1030	7.45	92.90	10.28	57.64	1.00	25.16
08/30/87	1045	8.22	108.60	9.52	57.91	1.00	25.16
08/30/87	1100	8.25	104.40	10.34	58.16	1.00	25.16
08/30/87	1115	7.83	110.40	10.75	58.94	1.00	25.15

RMA METEOROLOGICAL DATA  
FROM STATION M1  
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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
08/30/87	1130	6.90	121.10	19.37	59.08	1.00	25.14
08/30/87	1145	5.63	119.50	15.06	59.67	1.00	25.14
08/30/87	1200	4.86	137.40	31.48	61.07	1.00	25.13
08/30/87	1215	4.98	115.00	18.54	61.50	1.00	25.13
08/30/87	1230	3.41	117.10	12.72	62.87	1.00	25.12
08/30/87	1245	5.14	146.20	17.36	63.07	1.00	25.10
08/30/87	1300	5.84	124.60	31.43	63.70	1.00	25.10
08/30/87	1315	5.61	128.90	34.22	63.74	1.00	25.09
08/30/87	1330	5.82	128.30	17.35	64.01	1.00	25.08
08/30/87	1345	5.63	133.70	17.01	65.45	1.00	25.08
08/30/87	1400	6.51	122.70	51.49	65.72	1.00	25.08
08/30/87	1415	5.24	162.00	24.04	66.15	1.00	25.08
08/30/87	1430	6.61	153.50	8.74	67.33	1.00	25.07
08/30/87	1445	8.36	182.30	11.47	67.15	1.00	25.07
08/30/87	1500	5.93	155.40	29.15	68.44	1.00	25.06
08/30/87	1515	6.57	150.00	20.55	69.35	1.00	25.05
08/30/87	1530	5.76	137.80	13.52	70.00	1.00	25.05
08/30/87	1545	6.17	111.80	24.44	71.00	1.00	25.04
08/30/87	1600	8.10	116.10	18.97	71.50	1.00	25.03
08/30/87	1615	5.28	140.10	39.25	72.30	1.00	25.03
08/30/87	1630	4.95	146.70	33.51	73.60	1.00	24.98
08/30/87	1645	3.92	176.50	33.10	74.80	1.00	25.03
08/30/87	1700	5.57	146.00	41.76	74.80	1.00	25.02
08/30/87	1715	5.33	95.10	13.51	76.00	1.00	25.00
08/30/87	1730	4.85	91.90	48.79	76.40	1.00	25.00
08/30/87	1745	4.45	19.30	13.10	76.60	1.00	24.99
08/30/87	1800	5.72	47.32	45.24	77.70	1.00	24.98
08/30/87	1815	8.18	68.60	10.78	77.70	1.00	24.97
08/30/87	1830	6.59	14.75	20.95	77.40	1.00	24.97
08/30/87	1845	6.93	18.51	22.52	77.70	1.00	24.97
08/30/87	1900	7.99	19.02	6.42	77.30	1.00	24.96
08/30/87	1915	11.66	18.28	9.15	76.20	1.00	24.95
08/30/87	1930	9.36	4.44	6.35	75.30	1.00	24.94
08/30/87	1945	8.59	14.46	5.60	74.00	1.00	23.44
08/30/87	2000	9.46	25.32	3.21	72.40	1.00	24.93
08/30/87	2015	7.58	5.37	5.54	72.80	1.00	24.97
08/30/87	2030	8.11	357.70	5.54	72.50	1.00	24.97
08/30/87	2045	7.08	7.74	5.88	72.20	1.00	24.97
08/30/87	2100	8.13	343.80	2.80	70.30	1.00	24.97
08/30/87	2115	9.35	339.50	2.39	69.33	1.00	24.97
08/30/87	2130	8.87	342.60	2.46	68.80	1.00	24.96
08/30/87	2145	9.08	340.60	2.81	67.68	1.00	24.96
08/30/87	2200	10.26	332.10	4.38	66.99	1.00	24.97
08/30/87	2215	9.95	340.40	2.81	66.24	1.00	24.97
08/30/87	2230	9.85	340.10	2.46	65.61	1.00	24.97
08/30/87	2245	10.46	341.60	2.06	65.01	1.00	24.99

RMA METEOROLOGICAL DATA  
FROM STATION M1  
07/17 - 10/08, 1987

DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
08/30/87	2300	10.41	339.00	2.47	64.54	1.00	25.01
08/30/87	2315	10.16	340.20	2.40	64.18	1.00	25.02
08/30/87	2330	9.44	343.80	8.29	63.64	1.00	25.02
08/30/87	2345	6.35	4.38	4.39	63.10	1.00	25.02
08/31/87	0	5.87	3.36	5.55	62.17	1.00	25.03
08/31/87	15	6.49	352.90	5.89	60.87	1.00	25.03
08/31/87	30	6.34	345.40	2.40	60.19	1.00	25.03
08/31/87	45	7.24	340.00	3.56	59.43	1.00	25.03
08/31/87	100	6.62	318.60	5.14	59.00	1.00	25.03
08/31/87	115	7.50	305.50	5.49	59.02	1.00	25.03
08/31/87	130	7.67	305.30	3.98	58.87	1.00	25.04
08/31/87	145	11.38	317.50	4.32	58.74	1.00	25.05
08/31/87	200	11.97	324.90	4.32	58.32	1.00	25.06
08/31/87	215	11.09	327.40	4.73	57.59	1.00	25.07
08/31/87	230	11.40	329.10	4.32	57.07	1.00	25.07
08/31/87	245	9.86	329.50	5.49	56.35	1.00	25.06
08/31/87	300	6.76	331.80	5.49	55.64	1.00	25.08
08/31/87	315	6.18	315.90	3.16	55.21	1.00	25.08
08/31/87	330	6.81	309.00	3.57	54.88	1.00	25.09
08/31/87	345	6.89	308.20	1.92	54.91	1.00	25.09
08/31/87	400	7.45	293.80	1.92	54.85	1.00	25.09
08/31/87	415	7.84	297.30	2.33	54.23	1.00	25.09
08/31/87	430	6.57	292.60	3.50	53.59	1.00	25.09
08/31/87	445	5.37	249.50	4.33	53.32	1.00	25.09
08/31/87	500	5.55	252.70	3.91	53.48	1.00	25.09
08/31/87	515	6.92	270.30	3.09	53.56	1.00	25.09
08/31/87	530	8.40	285.60	1.51	53.61	1.00	25.09
08/31/87	545	6.91	281.70	5.84	53.24	1.00	25.09
08/31/87	600	5.52	279.30	2.33	52.88	1.00	25.09
08/31/87	615	5.71	286.70	5.08	53.93	1.00	25.10
08/31/87	630	4.69	269.90	11.33	53.36	1.00	25.10
08/31/87	645	5.36	252.30	10.58	52.42	1.00	25.09
08/31/87	700	4.77	265.00	12.56	52.57	1.00	25.10
08/31/87	715	4.94	246.40	7.42	52.76	1.00	25.10
08/31/87	730	5.52	253.10	6.32	53.08	1.00	25.10
08/31/87	745	5.33	247.70	2.68	52.61	1.00	25.10
08/31/87	800	4.85	240.80	2.33	51.94	1.00	25.11
08/31/87	815	5.43	240.50	2.75	51.87	1.00	25.11
08/31/87	830	5.66	250.70	1.92	52.05	1.00	25.11
08/31/87	845	4.40	251.60	5.08	52.07	1.00	25.11
08/31/87	900	3.93	230.10	3.16	51.99	1.00	25.12
08/31/87	915	3.48	232.40	2.68	52.83	1.00	25.12
08/31/87	930	4.30	231.20	3.50	53.63	1.00	25.12
08/31/87	945	3.21	235.20	5.08	54.80	1.00	25.12
08/31/87	1000	3.86	241.40	7.89	56.11	1.00	25.12
08/31/87	1015	4.45	256.90	10.28	57.19	1.00	25.11

RMA METEOROLOGICAL DATA  
FROM STATION M1  
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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
08/31/87	1030	4.30	262.70	15.42	58.28	1.00	25.11
08/31/87	1045	4.75	280.70	13.08	58.75	1.00	25.12
08/31/87	1100	5.49	279.80	14.65	59.64	1.00	25.12
08/31/87	1115	4.49	288.80	10.40	60.62	1.00	25.12
08/31/87	1130	4.30	313.50	23.25	61.63	1.00	25.11
08/31/87	1145	4.36	307.80	37.73	62.33	1.00	25.11
08/31/87	1200	2.84	1.31	51.85	63.60	1.00	25.10
08/31/87	1215	4.35	295.20	22.47	63.93	1.00	25.10
08/31/87	1230	3.92	268.20	24.03	64.92	1.00	25.09
08/31/87	1245	4.17	302.20	16.31	65.96	1.00	25.11
08/31/87	1300	2.95	284.50	17.40	66.82	1.00	25.12
08/31/87	1315	4.15	251.70	24.01	67.07	1.00	25.12
08/31/87	1330	3.29	246.60	14.66	68.45	1.00	25.11
08/31/87	1345	3.46	247.10	29.94	68.87	1.00	25.11
08/31/87	1400	3.58	264.40	14.66	70.10	1.00	25.11
08/31/87	1415	3.97	189.00	20.18	69.95	1.00	25.11
08/31/87	1430	4.29	65.72	37.76	71.50	1.00	25.11
08/31/87	1445	3.48	67.35	54.33	72.70	1.00	25.11
08/31/87	1500	3.86	11.51	51.53	72.90	1.00	25.09
08/31/87	1515	4.32	65.77	18.61	73.80	1.00	25.09
08/31/87	1530	4.41	48.27	31.08	74.60	1.00	25.08
08/31/87	1545	5.16	50.33	14.31	75.00	1.00	25.08
08/31/87	1600	4.74	47.37	19.42	75.40	1.00	25.08
08/31/87	1615	4.59	49.16	46.83	76.00	1.00	25.09
08/31/87	1630	4.86	43.39	18.54	76.60	1.00	25.08
08/31/87	1645	5.81	30.99	11.11	76.70	1.00	25.08
08/31/87	1700	5.86	30.13	24.48	76.80	1.00	25.08
08/31/87	1715	5.95	31.67	20.59	77.50	1.00	25.07
08/31/87	1730	5.94	48.58	17.46	78.00	1.00	25.06
08/31/87	1745	4.40	39.54	48.70	78.50	1.00	25.06
08/31/87	1800	3.35	51.22	66.84	79.70	1.00	25.05
08/31/87	1815	3.57	77.10	17.80	80.20	1.00	25.05
08/31/87	1830	2.71	70.10	59.81	80.70	1.00	25.05
08/31/87	1845	3.84	12.36	48.36	80.30	1.00	25.05
08/31/87	1900	4.24	20.05	9.96	79.80	1.00	25.05
08/31/87	1915	4.23	14.37	21.35	79.50	1.00	25.04
08/31/87	1930	2.34	13.21	35.48	79.60	1.00	25.05
08/31/87	1945	4.41	63.43	4.85	79.70	1.00	25.04
08/31/87	2000	4.58	60.39	11.54	79.20	1.00	25.03
08/31/87	2015	2.77	52.53	11.88	79.70	1.00	25.02
08/31/87	2030	2.73	27.90	10.72	78.90	1.00	25.02
08/31/87	2045	2.01	38.82	10.72	78.80	1.00	25.02
08/31/87	2100	0.73	356.60	20.50	77.80	1.00	25.02
08/31/87	2115	1.15	59.83	5.19	76.50	1.00	25.02
08/31/87	2130	1.95	86.90	5.20	75.10	1.00	25.01
08/31/87	2145	2.58	71.60	4.38	74.10	1.00	25.04

RMA METEOROLOGICAL DATA  
FROM STATION M1  
07/17 - 10/08, 1987

DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
08/31/87	2200	3.07	77.70	2.87	73.40	1.00	25.04
08/31/87	2215	3.65	79.00	2.81	73.80	1.00	25.05
08/31/87	2230	4.00	72.80	3.56	73.40	1.00	25.05
08/31/87	2245	3.45	85.70	3.29	73.20	1.00	25.05
08/31/87	2300	4.88	100.30	8.35	73.50	1.00	25.05
08/31/87	2315	6.14	118.50	2.06	72.60	1.00	25.05
08/31/87	2330	8.80	118.60	1.64	70.10	1.00	25.08
08/31/87	2345	9.52	119.20	2.06	69.59	1.00	25.08
09/01/87	0	9.95	136.70	2.06	68.39	1.00	25.08
09/01/87	15	10.68	143.80	2.81	66.92	1.00	25.08
09/01/87	30	8.39	189.00	1.65	65.13	1.00	25.08
09/01/87	45	8.03	185.90	1.65	67.35	1.00	25.09
09/01/87	100	7.26	190.10	3.63	68.39	1.00	25.08
09/01/87	115	7.54	184.80	3.22	67.02	1.00	25.09
09/01/87	130	8.13	196.50	7.88	64.46	1.00	25.09
09/01/87	145	8.45	192.90	1.99	64.64	1.00	25.08
09/01/87	200	8.32	190.00	1.23	64.12	1.00	25.09
09/01/87	215	8.34	188.10	0.82	63.96	1.00	25.09
09/01/87	230	6.77	188.40	1.58	63.37	1.00	25.08
09/01/87	245	6.29	188.80	1.99	63.40	1.00	25.08
09/01/87	300	6.89	195.80	1.17	62.29	1.00	25.09
09/01/87	315	6.96	201.90	0.41	61.68	1.00	25.08
09/01/87	330	7.22	202.50	1.58	60.41	1.00	25.08
09/01/87	345	6.89	210.00	1.58	59.69	1.00	25.08
09/01/87	400	6.42	208.90	1.99	59.32	1.00	25.08
09/01/87	415	5.80	206.90	1.99	59.42	1.00	25.08
09/01/87	430	6.02	212.80	3.16	59.75	1.00	25.08
09/01/87	445	7.17	201.60	2.33	58.69	1.00	25.08
09/01/87	500	7.47	203.30	0.76	58.29	1.00	25.08
09/01/87	515	6.73	203.50	1.58	57.84	1.00	25.08
09/01/87	530	6.96	199.40	1.92	57.78	1.00	25.08
09/01/87	545	7.07	196.40	1.92	57.70	1.00	25.08
09/01/87	600	7.88	193.90	1.58	57.93	1.00	25.08
09/01/87	615	8.00	190.90	0.76	57.72	1.00	25.08
09/01/87	630	7.66	191.60	1.92	57.33	1.00	25.08
09/01/87	645	7.41	197.70	2.75	56.39	1.00	25.08
09/01/87	700	6.75	197.90	1.92	56.57	1.00	25.09
09/01/87	715	7.35	200.10	2.75	56.07	1.00	25.08
09/01/87	730	6.34	192.30	1.51	55.90	1.00	25.08
09/01/87	745	7.28	199.60	2.68	56.25	1.00	25.08
09/01/87	800	7.13	197.40	1.92	55.80	1.00	25.09
09/01/87	815	6.38	198.60	1.51	56.06	1.00	25.09
09/01/87	830	6.67	195.30	1.92	55.54	1.00	25.10
09/01/87	845	6.49	197.30	1.17	55.61	1.00	25.10
09/01/87	900	7.08	196.30	1.24	56.20	1.00	25.12
09/01/87	915	7.47	197.50	2.33	57.01	1.00	25.12

RMA METEOROLOGICAL DATA  
FROM STATION M1  
07/17 - 10/08, 1987

DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
09/01/87	930	7.23	196.30	3.16	58.02	1.00	25.12
09/01/87	945	2.58	274.30	17.35	59.46	1.00	25.12
09/01/87	1000	2.49	297.50	20.08	59.30	1.00	25.13
09/01/87	1015	3.31	217.60	7.95	60.63	1.00	25.11
09/01/87	1030	4.09	226.40	11.50	61.92	1.00	25.12
09/01/87	1045	4.74	220.10	11.09	63.55	1.00	25.12
09/01/87	1100	3.22	263.10	14.98	65.49	1.00	25.12
09/01/87	1115	3.78	294.30	16.62	66.33	1.00	25.11
09/01/87	1130	5.38	307.20	11.48	66.30	1.00	25.10
09/01/87	1145	5.52	311.30	11.13	67.14	1.00	25.10
09/01/87	1200	6.33	319.10	15.43	68.08	1.00	25.10
09/01/87	1215	5.86	319.50	13.85	69.00	1.00	25.10
09/01/87	1230	5.37	321.40	20.54	69.74	1.00	25.10
09/01/87	1245	5.32	17.20	20.94	70.80	1.00	25.13
09/01/87	1300	5.01	340.80	29.19	70.70	1.00	25.13
09/01/87	1315	4.36	17.45	31.09	71.40	1.00	25.13
09/01/87	1330	3.68	359.10	13.09	72.30	1.00	25.12
09/01/87	1345	3.32	72.60	20.99	73.70	1.00	24.99
09/01/87	1400	4.06	27.96	19.01	74.10	1.00	24.94
09/01/87	1415	3.41	46.48	33.11	75.50	1.00	24.94
09/01/87	1430	3.12	22.10	49.93	76.20	1.00	24.93
09/01/87	1445	2.53	183.30	60.62	77.40	1.00	24.94
09/01/87	1500	4.25	45.69	60.20	77.70	1.00	24.94
09/01/87	1515	4.78	100.50	24.45	77.90	1.00	24.91
09/01/87	1530	2.71	39.46	32.75	79.10	1.00	24.91
09/01/87	1545	5.22	183.40	15.87	79.10	1.00	24.93
09/01/87	1600	4.43	101.20	15.46	80.10	1.00	24.97
09/01/87	1615	5.52	88.00	24.11	80.50	1.00	24.99
09/01/87	1630	4.99	164.00	27.65	80.80	1.00	24.98
09/01/87	1645	4.59	124.90	66.89	81.40	1.00	24.97
09/01/87	1700	4.66	149.00	51.57	81.90	1.00	24.97
09/01/87	1715	6.24	182.90	17.44	82.20	1.00	24.98
09/01/87	1730	5.47	165.70	42.92	82.30	1.00	24.98
09/01/87	1745	5.60	185.60	14.31	81.80	1.00	24.95
09/01/87	1800	5.21	209.00	8.79	81.80	1.00	24.93
09/01/87	1815	6.29	195.20	6.82	81.00	1.00	24.81
09/01/87	1830	5.05	195.60	13.51	80.80	1.00	24.69
09/01/87	1845	6.30	154.60	9.14	81.10	1.00	24.69
09/01/87	1900	5.99	156.90	19.80	80.90	1.00	24.69
09/01/87	1915	4.90	132.80	4.44	80.40	1.00	24.70
09/01/87	1930	6.74	140.40	4.44	80.10	1.00	24.71
09/01/87	1945	5.74	143.80	7.17	80.00	1.00	24.73
09/01/87	2000	4.08	144.20	4.03	79.60	1.00	24.33
09/01/87	2015	3.24	132.00	4.78	79.10	1.00	22.93
09/01/87	2030	5.23	127.50	2.05	78.60	1.00	22.77
09/01/87	2045	4.97	127.70	3.21	78.00	1.00	24.91

RMA METEOROLOGICAL DATA  
FROM STATION M1  
07/17 - 10/08, 1987

DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
09/01/87	2100	7.98	140.90	2.05	76.80	1.00	25.00
09/01/87	2115	8.06	138.10	0.89	75.30	1.00	24.99
09/01/87	2130	6.86	147.40	1.30	74.50	1.00	24.99
09/01/87	2145	6.95	134.00	5.61	73.50	1.00	24.99
09/01/87	2200	7.34	139.00	4.04	73.90	1.00	25.01
09/01/87	2215	7.03	158.40	2.05	72.60	1.00	25.01
09/01/87	2230	6.17	261.40	11.09	72.20	1.00	25.01
09/01/87	2245	6.55	260.30	16.57	74.90	1.00	25.02
09/01/87	2300	6.42	168.40	7.60	74.60	1.00	25.02
09/01/87	2315	7.86	138.70	4.45	74.40	1.00	25.02
09/01/87	2330	7.49	171.10	2.81	73.50	1.00	25.02
09/01/87	2345	5.40	260.40	14.24	72.90	1.00	25.02
09/02/87	0	9.95	318.20	6.37	71.30	1.00	25.04
09/02/87	15	8.62	330.60	3.63	71.20	1.00	25.04
09/02/87	30	5.21	338.30	4.04	71.10	1.00	25.03
09/02/87	45	4.89	357.40	18.49	71.50	1.00	25.03
09/02/87	100	3.77	220.50	9.11	70.30	1.00	25.03
09/02/87	115	6.43	187.60	5.21	69.97	1.00	25.01
09/02/87	130	15.46	164.30	3.22	68.49	1.00	25.00
09/02/87	145	11.64	172.80	3.63	69.56	1.00	24.99
09/02/87	200	8.44	203.20	3.22	69.69	1.00	24.99
09/02/87	215	10.05	234.60	11.44	68.47	1.00	24.99
09/02/87	230	6.45	254.20	5.55	68.99	1.00	24.99
09/02/87	245	1.74	269.90	9.11	68.08	1.00	24.99
09/02/87	300	1.62	108.50	9.04	66.38	1.00	25.00
09/02/87	315	6.23	165.80	2.81	68.60	1.00	25.00
09/02/87	330	7.32	174.70	4.39	69.07	1.00	25.00
09/02/87	345	8.16	176.00	7.47	68.41	1.00	24.99
09/02/87	400	10.00	148.70	1.99	64.84	1.00	25.00
09/02/87	415	10.26	155.40	3.56	65.03	1.00	24.99
09/02/87	430	9.41	171.80	1.58	65.52	1.00	24.98
09/02/87	445	8.33	177.10	3.98	65.56	1.00	24.98
09/02/87	500	8.31	280.60	3.56	64.52	1.00	24.98
09/02/87	515	5.07	296.50	4.32	64.25	1.00	24.98
09/02/87	530	4.81	304.00	3.98	63.64	1.00	24.98
09/02/87	545	2.14	341.50	21.60	62.27	1.00	24.97
09/02/87	600	1.94	68.39	11.80	61.64	1.00	24.96
09/02/87	615	2.32	91.40	5.08	61.38	1.00	24.97
09/02/87	630	1.11	107.20	31.34	60.73	1.00	24.97
09/02/87	645	2.35	317.40	10.22	60.56	1.00	24.97
09/02/87	700	4.41	322.10	1.17	61.09	1.00	24.97
09/02/87	715	6.42	304.40	2.33	60.78	1.00	24.97
09/02/87	730	5.87	272.60	8.23	58.63	1.00	24.97
09/02/87	745	5.48	243.20	1.92	57.33	1.00	24.97
09/02/87	800	5.22	255.30	2.33	58.39	1.00	24.98
09/02/87	815	4.25	253.60	3.50	58.92	1.00	24.98

RMA METEOROLOGICAL DATA  
FROM STATION M1  
07/17 - 10/08, 1987

DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
09/02/87	830	4.34	249.70	2.68	58.71	1.00	24.98
09/02/87	845	5.26	241.30	7.07	59.71	1.00	24.98
09/02/87	900	4.87	223.80	2.33	59.06	1.00	24.98
09/02/87	915	5.69	227.20	4.74	59.95	1.00	24.98
09/02/87	930	4.76	213.20	3.16	59.74	1.00	24.98
09/02/87	945	5.18	216.50	2.74	60.65	1.00	24.98
09/02/87	1000	5.29	227.00	3.22	61.58	1.00	24.97
09/02/87	1015	5.24	233.20	5.21	62.25	1.00	24.97
09/02/87	1030	4.88	244.00	7.19	63.59	1.00	24.97
09/02/87	1045	4.24	236.30	11.85	65.59	1.00	24.97
09/02/87	1100	4.10	223.30	7.60	66.62	1.00	24.98
09/02/87	1115	3.78	223.70	17.04	67.74	1.00	24.97
09/02/87	1130	4.58	223.90	20.17	69.00	1.00	24.95
09/02/87	1145	5.32	192.60	11.90	70.10	1.00	24.96
09/02/87	1200	5.70	184.80	12.23	71.00	1.00	24.96
09/02/87	1215	5.16	186.90	11.47	72.30	1.00	24.96
09/02/87	1230	6.16	202.30	10.38	73.70	1.00	24.95
09/02/87	1245	7.22	202.40	12.69	75.10	1.00	24.95
09/02/87	1300	6.57	190.80	16.65	76.70	1.00	24.95
09/02/87	1315	6.01	184.60	11.12	78.40	1.00	24.94
09/02/87	1330	5.04	164.40	19.43	79.90	1.00	24.94
09/02/87	1345	4.43	161.00	24.80	81.00	1.00	24.93
09/02/87	1400	5.35	102.50	22.14	82.10	1.00	24.93
09/02/87	1415	5.98	146.60	19.41	83.00	1.00	24.92
09/02/87	1430	5.16	107.90	61.42	84.20	1.00	24.91
09/02/87	1445	6.01	82.60	35.88	85.50	1.00	24.91
09/02/87	1500	5.50	105.00	37.03	85.80	1.00	24.90
09/02/87	1515	6.74	139.20	16.33	86.30	1.00	24.90
09/02/87	1530	7.78	156.70	15.92	86.20	1.00	24.90
09/02/87	1545	10.57	167.90	19.46	86.10	1.00	24.89
09/02/87	1600	11.51	184.20	13.14	85.80	1.00	24.87
09/02/87	1615	11.81	179.90	10.42	85.90	1.00	24.87
09/02/87	1630	13.23	210.00	10.01	84.80	1.00	24.85
09/02/87	1645	12.62	204.80	8.45	85.60	1.00	24.85
09/02/87	1700	12.40	206.60	17.85	85.10	1.00	24.85
09/02/87	1715	10.60	186.70	16.70	86.10	1.00	24.85
09/02/87	1730	12.87	202.30	6.00	84.80	1.00	24.85
09/02/87	1745	13.30	221.90	7.57	84.20	1.00	24.84
09/02/87	1800	12.24	228.10	4.03	83.70	1.00	24.84
09/02/87	1815	11.46	228.10	4.03	83.20	1.00	24.84
09/02/87	1830	9.43	239.30	3.62	82.20	1.00	24.84
09/02/87	1845	12.17	260.80	18.16	81.30	1.00	24.86
09/02/87	1900	12.98	232.60	25.14	81.20	1.00	24.86
09/02/87	1915	9.76	15.93	7.52	78.00	1.00	24.87
09/02/87	1930	11.21	324.70	13.39	76.10	1.00	24.80
09/02/87	1945	7.40	253.20	21.33	76.70	1.00	24.86



RMA METEOROLOGICAL DATA  
FROM STATION M1  
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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
09/02/87	2000	6.03	174.30	11.08	77.40	1.00	24.66
09/02/87	2015	14.14	137.40	3.97	76.30	1.00	24.65
09/02/87	2030	10.07	138.20	18.88	76.00	1.00	24.62
09/02/87	2045	3.74	154.90	27.56	76.30	1.00	24.63
09/02/87	2100	4.14	96.40	18.60	76.30	1.00	24.64
09/02/87	2115	4.90	165.20	11.56	75.60	1.00	24.64
09/02/87	2130	4.42	201.80	2.87	75.20	1.00	24.78
09/02/87	2145	4.56	204.60	2.87	74.50	1.00	24.87
09/02/87	2200	4.89	123.40	8.35	72.60	1.00	24.78
09/02/87	2215	9.94	134.10	6.78	70.90	1.00	24.75
09/02/87	2230	10.78	167.80	1.23	70.10	1.00	24.66
09/02/87	2245	10.40	176.20	1.64	70.10	1.00	24.57
09/02/87	2300	8.43	173.40	2.05	69.84	1.00	24.55
09/02/87	2315	10.98	168.20	3.63	70.40	1.00	24.53
09/02/87	2330	10.48	183.70	2.47	70.10	1.00	24.52
09/02/87	2345	11.19	191.30	2.81	69.70	1.00	24.51
09/03/87	0	11.67	191.30	2.81	69.42	1.00	24.51
09/03/87	15	10.67	200.10	2.06	68.63	1.00	24.50
09/03/87	30	8.85	196.20	2.81	68.05	1.00	24.49
09/03/87	45	8.70	201.30	2.40	68.14	1.00	24.51
09/03/87	100	7.58	194.80	1.99	67.26	1.00	24.51
09/03/87	115	9.18	191.60	2.06	66.99	1.00	24.51
09/03/87	130	10.14	188.60	2.40	67.05	1.00	24.48
09/03/87	145	10.39	183.50	1.65	66.44	1.00	24.46
09/03/87	200	11.21	181.90	2.40	66.98	1.00	24.47
09/03/87	215	11.62	185.50	1.99	67.10	1.00	24.41
09/03/87	230	11.19	184.10	1.99	66.62	1.00	24.44
09/03/87	245	11.37	185.80	2.40	66.23	1.00	24.55
09/03/87	300	10.46	182.60	1.99	65.54	1.00	24.64
09/03/87	315	9.47	185.40	2.40	64.99	1.00	24.80
09/03/87	330	9.65	179.60	1.58	64.10	1.00	24.81
09/03/87	345	9.82	176.90	2.40	63.95	1.00	24.81
09/03/87	400	9.67	171.20	1.99	63.89	1.00	24.81
09/03/87	415	10.26	177.40	1.58	63.89	1.00	24.81
09/03/87	430	8.90	186.50	1.58	63.02	1.00	24.81
09/03/87	445	9.59	190.90	2.74	62.98	1.00	24.81
09/03/87	500	9.80	199.90	1.58	63.37	1.00	24.81
09/03/87	515	10.90	202.70	3.15	63.10	1.00	24.81
09/03/87	530	10.93	200.20	5.08	63.17	1.00	24.81
09/03/87	545	10.20	200.30	3.15	62.68	1.00	24.81
09/03/87	600	9.65	198.90	3.50	62.00	1.00	24.81
09/03/87	615	9.28	207.90	2.33	61.07	1.00	24.82
09/03/87	630	9.42	197.80	2.33	60.88	1.00	24.81
09/03/87	645	10.97	195.90	2.74	61.54	1.00	24.80
09/03/87	700	10.21	200.50	1.92	60.53	1.00	24.80
09/03/87	715	8.88	193.10	3.15	60.21	1.00	24.80

RMA METEOROLOGICAL DATA  
FROM STATION M1  
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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
09/03/87	730	7.55	190.40	1.51	59.58	1.00	24.80
09/03/87	745	8.74	192.10	1.58	59.50	1.00	24.79
09/03/87	800	9.28	194.00	2.33	60.10	1.00	24.80
09/03/87	815	10.23	197.80	6.31	60.64	1.00	24.81
09/03/87	830	10.03	203.90	4.32	60.40	1.00	24.81
09/03/87	845	9.70	212.50	1.58	58.95	1.00	24.81
09/03/87	900	8.57	213.60	1.58	58.63	1.00	24.81
09/03/87	915	7.50	210.30	1.99	59.27	1.00	24.81
09/03/87	930	6.79	209.80	3.57	60.14	1.00	24.81
09/03/87	945	7.21	212.00	3.56	61.53	1.00	24.79
09/03/87	1000	7.30	193.60	3.63	63.63	1.00	24.74
09/03/87	1015	9.42	188.20	3.63	65.92	1.00	24.71
09/03/87	1030	9.88	194.90	4.04	67.24	1.00	24.77
09/03/87	1045	9.36	195.20	4.45	69.12	1.00	24.83
09/03/87	1100	9.04	192.70	6.02	70.60	1.00	24.83
09/03/87	1115	8.46	193.00	7.59	72.40	1.00	24.83
09/03/87	1130	8.98	198.60	3.62	74.00	1.00	24.83
09/03/87	1145	7.40	198.30	6.01	76.00	1.00	24.82
09/03/87	1200	7.37	189.60	8.40	77.50	1.00	24.80
09/03/87	1215	6.69	192.80	5.67	78.50	1.00	24.82
09/03/87	1230	5.38	168.60	11.94	80.40	1.00	24.82
09/03/87	1245	4.65	194.30	11.93	81.30	1.00	24.82
09/03/87	1300	2.85	201.60	36.67	82.70	1.00	24.82
09/03/87	1315	2.52	161.30	23.29	84.10	1.00	24.82
09/03/87	1330	4.49	209.60	22.13	83.80	1.00	24.80
09/03/87	1345	4.17	221.20	16.68	84.40	1.00	24.80
09/03/87	1400	3.99	284.00	38.24	85.10	1.00	24.80
09/03/87	1415	4.71	259.00	40.21	85.30	1.00	24.78
09/03/87	1430	4.08	271.20	32.78	86.00	1.00	24.77
09/03/87	1445	7.95	223.20	21.77	85.40	1.00	23.44
09/03/87	1500	3.45	258.40	21.02	87.30	1.00	20.30
09/07/87	1530	9.20	42.04	23.27	62.62	0.78	24.95
09/07/87	1545	8.41	42.01	11.91	63.11	0.78	24.95
09/07/87	1600	6.63	36.05	26.75	63.06	0.78	24.95
09/07/87	1615	7.33	38.97	16.97	62.63	0.78	24.95
09/07/87	1630	7.72	21.54	9.92	61.99	0.78	24.95
09/07/87	1645	9.43	34.07	16.97	63.01	0.78	24.95
09/07/87	1700	11.11	35.92	7.60	63.54	0.78	24.95
09/07/87	1715	12.20	35.78	6.43	62.87	0.78	24.95
09/07/87	1730	10.31	31.85	7.19	63.02	0.78	24.95
09/07/87	1745	8.72	38.19	11.84	62.74	0.78	24.95
09/07/87	1800	13.89	35.85	4.79	60.66	0.78	24.96
09/07/87	1815	12.98	38.97	4.04	60.47	0.78	24.96
09/07/87	1830	11.49	36.36	3.97	60.57	0.78	24.96
09/07/87	1845	10.00	36.80	4.38	60.63	0.78	24.96
09/07/87	1900	10.57	40.36	4.73	60.67	0.78	24.96

RMA METEOROLOGICAL DATA  
FROM STATION M1  
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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
09/07/87	1915	10.79	38.37	3.98	60.51	0.78	24.97
09/07/87	1930	7.68	30.97	6.72	60.74	0.78	24.97
09/07/87	1945	7.82	40.56	7.47	61.01	0.78	24.96
09/07/87	2000	6.55	38.18	3.98	60.89	0.78	24.95
09/07/87	2015	5.29	47.19	9.87	60.32	0.78	24.95
09/07/87	2030	5.67	20.13	7.88	60.18	0.78	24.95
09/07/87	2045	5.35	348.10	4.73	59.20	0.78	24.95
09/07/87	2100	4.47	339.90	2.40	59.15	0.78	24.95
09/07/87	2115	3.09	342.80	5.55	59.09	0.78	24.96
09/07/87	2130	1.89	351.50	3.98	58.90	0.78	24.96
09/07/87	2145	1.46	12.84	4.39	58.87	0.78	24.96
09/07/87	2200	3.49	34.87	3.56	58.71	0.78	24.96
09/07/87	2215	3.97	42.60	1.58	58.52	0.78	24.96
09/07/87	2230	4.68	43.95	1.99	58.43	0.78	24.96
09/07/87	2245	5.14	41.10	2.40	58.08	0.78	24.98
09/07/87	2300	4.48	49.76	6.31	57.63	0.78	24.99
09/07/87	2315	8.49	83.20	5.56	57.81	0.78	24.99
09/07/87	2330	7.74	97.30	3.98	56.73	0.78	24.99
09/07/87	2345	7.23	108.20	3.16	56.60	0.78	24.99
09/08/87	0	8.51	111.80	4.32	56.49	0.78	25.01
09/08/87	15	7.76	113.50	4.73	56.51	0.78	25.01
09/08/87	30	7.24	115.40	3.98	56.61	0.78	25.01
09/08/87	45	7.04	124.00	4.73	56.84	0.78	25.01
09/08/87	100	6.83	130.60	4.73	56.80	0.78	25.01
09/08/87	115	6.20	135.60	4.32	56.68	0.78	25.01
09/08/87	130	7.10	136.10	3.16	56.64	0.78	25.01
09/08/87	145	5.88	136.00	3.57	56.55	0.78	25.01
09/08/87	200	4.91	129.60	3.57	56.36	0.78	25.01
09/08/87	215	4.78	145.40	5.49	56.29	0.78	25.01
09/08/87	230	4.59	138.10	3.98	56.25	0.78	25.01
09/08/87	245	3.69	132.60	2.74	55.98	0.78	25.00
09/08/87	300	3.96	149.10	3.57	55.90	0.78	25.00
09/08/87	315	3.98	150.50	14.13	56.06	0.78	25.00
09/08/87	330	4.86	150.10	3.57	56.37	0.78	25.00
09/08/87	345	4.51	156.50	4.73	56.30	0.78	25.00
09/08/87	400	5.53	152.60	3.16	56.26	0.78	25.00
09/08/87	415	5.64	154.00	2.74	56.01	0.78	25.00
09/08/87	430	6.25	165.80	1.92	55.86	0.78	24.99
09/08/87	445	5.99	177.60	1.58	55.59	0.78	24.99
09/08/87	500	5.66	172.00	3.91	55.27	0.78	24.98
09/08/87	515	7.01	163.50	2.68	55.78	0.78	24.98
09/08/87	530	6.06	166.10	1.92	55.08	0.78	24.98
09/08/87	545	6.26	178.70	1.17	54.76	0.78	24.98
09/08/87	600	6.93	172.00	2.33	54.45	0.78	24.97
09/08/87	615	6.89	169.70	3.50	53.95	0.78	24.97
09/08/87	630	8.04	180.70	2.68	54.44	0.78	24.97

RMA METEOROLOGICAL DATA  
FROM STATION M1  
07/17 - 10/08, 1987

DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
09/08/87	645	8.21	182.30	3.91	54.10	0.78	24.96
09/08/87	700	5.83	193.00	2.68	53.41	0.78	24.96
09/08/87	715	6.27	193.10	1.92	53.35	0.78	24.95
09/08/87	730	6.20	180.80	1.51	52.69	0.78	24.94
09/08/87	745	5.15	191.30	7.48	52.73	0.78	24.94
09/08/87	800	2.32	234.40	14.97	51.17	0.78	24.94
09/08/87	815	3.67	212.00	5.49	50.94	0.78	24.95
09/08/87	830	5.51	210.20	1.51	52.45	0.78	24.95
09/08/87	845	5.96	204.00	1.51	52.15	0.78	24.95
09/08/87	900	6.23	202.30	1.99	52.28	0.78	24.95
09/08/87	915	4.40	209.20	5.50	51.63	0.78	24.95
09/08/87	930	4.03	223.80	2.75	51.71	0.78	24.94
09/08/87	945	2.88	222.70	6.32	52.17	0.78	24.94
09/08/87	1000	2.93	197.00	6.72	53.22	0.78	24.94
09/08/87	1015	3.55	220.90	7.89	54.22	0.78	24.93
09/08/87	1030	3.55	234.30	9.46	55.58	0.78	24.93
09/08/87	1045	4.55	236.90	8.29	56.91	0.78	24.93
09/08/87	1100	4.69	236.90	13.42	58.01	0.78	24.93
09/08/87	1115	4.85	226.60	11.85	59.65	0.78	24.93
09/08/87	1130	5.46	228.20	8.35	60.98	0.78	24.91
09/08/87	1145	6.05	224.40	12.66	61.88	0.78	24.91
09/08/87	1200	5.40	231.10	18.88	63.26	0.78	24.91
09/08/87	1215	5.02	225.60	7.18	64.63	0.78	24.50
09/08/87	1230	5.62	203.40	13.46	65.79	0.78	23.93
09/08/87	1245	5.93	203.70	14.62	66.73	0.78	23.48
09/08/87	1300	6.03	220.30	11.88	68.05	0.78	23.64
09/08/87	1315	5.20	218.60	15.84	69.16	0.78	23.70
09/08/87	1330	4.41	240.60	14.27	70.70	0.78	23.40
09/08/87	1345	4.39	258.90	23.68	71.90	0.78	22.98
09/08/87	1400	4.04	291.20	24.83	73.00	0.78	23.04
09/08/87	1415	4.06	57.47	31.50	74.10	0.78	22.50
09/08/87	1430	4.75	53.97	30.34	74.50	0.78	21.87
09/08/87	1445	5.42	54.98	19.78	75.30	0.78	21.52
09/08/87	1500	7.08	70.80	12.27	75.20	0.78	21.28
09/08/87	1515	7.16	73.80	10.37	75.70	0.78	21.14
09/08/87	1530	7.52	81.90	11.12	75.70	0.78	21.15
09/08/87	1545	7.54	69.70	20.94	76.20	0.78	21.08
09/08/87	1600	8.19	65.00	14.67	76.70	0.78	20.97
09/08/87	1615	8.50	80.00	7.23	76.80	0.78	20.92
09/08/87	1630	7.58	77.30	24.43	77.10	0.78	20.79
09/08/87	1645	5.79	92.30	17.81	77.40	0.78	20.76
09/08/87	1700	5.98	70.90	27.57	78.40	0.78	20.72
09/08/87	1715	7.49	107.60	22.93	77.70	0.78	20.75
09/08/87	1730	4.03	93.40	27.57	78.20	0.78	20.76
09/08/87	1745	2.39	64.94	68.79	79.10	0.78	20.75
09/08/87	1800	3.55	156.10	46.47	78.80	0.78	20.74

RMA METEOROLOGICAL DATA  
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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
09/08/87	1815	3.26	146.40	41.35	78.90	0.78	20.71
09/08/87	1830	3.25	112.00	26.00	79.20	0.78	20.82
09/08/87	1845	6.95	190.60	8.80	78.40	0.78	21.21
09/08/87	1900	3.28	145.50	23.28	79.20	0.78	21.30
09/08/87	1915	4.21	150.70	13.11	78.80	0.78	20.98
09/08/87	1930	5.04	138.40	12.29	78.50	0.78	21.19
09/08/87	1945	4.79	107.60	6.83	78.60	0.78	21.46
09/08/87	2000	6.38	130.00	9.97	78.30	0.78	21.50
09/08/87	2015	8.40	143.70	4.44	77.30	0.78	22.42
09/08/87	2030	5.41	127.60	6.01	76.30	0.78	24.17
09/08/87	2045	5.55	132.90	3.28	74.90	0.78	23.42
09/08/87	2100	5.75	137.20	5.20	73.90	0.78	23.05
09/08/87	2115	5.95	55.64	6.36	72.30	0.78	22.84
09/08/87	2130	5.49	103.00	11.91	73.30	0.78	22.55
09/08/87	2145	4.43	132.50	8.76	72.80	0.78	22.19
09/08/87	2200	4.42	90.90	3.63	71.90	0.78	22.13
09/08/87	2215	4.31	125.40	7.60	71.80	0.78	22.26
09/08/87	2230	2.99	157.00	7.94	71.70	0.78	22.52
09/08/87	2245	3.59	181.20	4.04	71.80	0.78	22.53
09/08/87	2300	6.53	222.90	28.70	70.00	0.78	22.53
09/08/87	2315	6.99	293.30	5.96	71.30	0.78	22.73
09/08/87	2330	10.57	287.30	6.37	71.80	0.78	22.64
09/08/87	2345	6.68	301.20	2.47	70.80	0.78	22.67
09/09/87	0	8.44	318.20	5.55	70.20	0.78	22.66
09/09/87	15	6.10	289.80	4.80	67.64	0.78	23.16
09/09/87	30	5.54	249.10	6.37	67.92	0.78	23.23
09/09/87	45	5.36	250.00	4.80	67.77	0.78	23.28
09/09/87	100	6.46	238.90	3.15	66.87	0.78	23.26
09/09/87	115	6.86	234.60	18.85	64.81	0.78	23.30
09/09/87	130	8.02	212.60	3.56	63.74	0.78	23.48
09/09/87	145	9.42	195.80	2.40	62.43	0.78	24.58
09/09/87	200	9.50	200.40	1.58	63.54	0.78	24.74
09/09/87	215	9.37	203.30	2.74	62.62	0.78	24.72
09/09/87	230	10.64	200.90	1.99	62.41	0.78	24.72
09/09/87	245	10.29	197.30	2.40	61.76	0.78	24.71
09/09/87	300	9.78	186.00	2.33	60.19	0.78	24.75
09/09/87	315	7.93	192.30	3.57	60.36	0.78	24.83
09/09/87	330	7.38	199.20	1.99	60.27	0.78	24.83
09/09/87	345	9.93	200.30	1.58	59.82	0.78	24.84
09/09/87	400	8.58	201.50	1.58	59.32	0.78	24.84
09/09/87	415	8.38	207.80	4.32	59.43	0.78	24.84
09/09/87	430	8.62	210.80	2.3	60.64	0.78	24.85
09/09/87	445	8.61	199.20	2.75	60.96	0.78	24.85
09/09/87	500	8.51	199.90	1.92	59.98	0.78	24.85
09/09/87	515	7.98	206.90	1.92	60.77	0.78	24.85
09/09/87	530	8.18	220.70	1.92	62.20	0.78	24.85

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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
09/09/87	545	5.93	229.70	4.73	61.60	0.78	24.85
09/09/87	600	9.69	10.65	7.89	60.50	0.78	24.87
09/09/87	615	19.63	32.09	5.49	58.37	0.78	24.91
09/09/87	630	14.71	24.81	3.91	56.52	0.78	24.91
09/09/87	645	10.02	13.00	4.32	55.38	0.78	24.93
09/09/87	700	9.45	22.03	5.83	54.51	0.78	24.93
09/09/87	715	5.74	348.00	4.32	53.67	0.78	24.96
09/09/87	730	6.84	344.40	8.99	53.15	0.78	24.97
09/09/87	745	4.34	342.70	9.81	53.05	0.78	24.97
09/09/87	800	2.18	350.40	12.56	52.79	0.78	24.96
09/09/87	815	1.79	2.12	10.64	52.81	0.78	24.96
09/09/87	830	2.58	300.30	8.30	52.65	0.78	24.96
09/09/87	845	3.12	299.60	9.06	53.00	0.78	24.96
09/09/87	900	3.03	216.40	12.22	52.66	0.78	24.96
09/09/87	915	3.44	201.20	11.46	52.95	0.78	24.96
09/09/87	930	5.33	195.70	3.57	52.80	0.78	24.95
09/09/87	945	6.25	207.70	3.57	53.13	0.78	24.95
09/09/87	1000	5.01	214.60	3.57	53.13	0.78	24.94
09/09/87	1015	4.17	226.20	3.23	53.37	0.78	24.94
09/09/87	1030	3.88	214.00	3.98	53.87	0.78	24.96
09/09/87	1045	4.33	201.00	8.65	55.29	0.78	24.97
09/09/87	1100	5.56	214.90	11.80	57.21	0.78	24.96
09/09/87	1115	6.52	227.40	9.12	57.91	0.78	24.96
09/09/87	1130	5.87	223.30	21.64	58.81	0.78	24.95
09/09/87	1145	4.26	227.50	28.35	60.13	0.78	24.95
09/09/87	1200	4.00	213.20	22.79	61.15	0.78	24.93
09/09/87	1215	4.30	194.50	11.83	62.17	0.78	24.90
09/09/87	1230	4.55	107.40	10.66	63.07	0.78	24.84
09/09/87	1245	3.63	120.70	68.68	63.76	0.78	24.78
09/09/87	1300	3.19	108.20	52.67	64.90	0.78	24.59
09/09/87	1315	3.63	47.80	29.84	65.79	0.78	24.76
09/09/87	1330	2.80	151.60	25.53	66.61	0.78	24.56
09/09/87	1345	4.05	100.10	16.25	66.90	0.78	24.22
09/09/87	1400	3.02	107.50	39.72	67.95	0.78	24.19
09/09/87	1415	4.05	76.70	26.00	68.15	0.78	24.11
09/09/87	1430	4.28	90.40	44.42	68.66	0.78	24.09
09/09/87	1445	4.23	67.19	22.52	69.56	0.78	24.06
09/09/87	1500	5.91	59.44	30.71	70.50	0.78	24.06
09/09/87	1515	5.57	66.17	9.55	70.80	0.78	24.00
09/09/87	1530	6.39	76.20	20.54	70.80	0.78	23.97
09/09/87	1545	4.68	75.50	35.07	72.60	0.78	23.94
09/09/87	1600	3.74	26.44	26.75	73.90	0.78	23.91
09/09/87	1615	6.06	18.83	10.37	72.80	0.78	23.58
09/09/87	1630	10.03	326.10	9.90	71.40	0.78	23.55
09/09/87	1645	6.40	23.06	15.84	71.60	0.78	23.71
09/09/87	1700	6.30	28.26	17.76	72.40	0.78	23.50

RMA METEOROLOGICAL DATA  
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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
09/09/87	1715	6.88	49.59	31.01	73.70	0.78	23.39
09/09/87	1730	6.70	75.20	13.05	74.90	0.78	23.38
09/09/87	1745	7.57	43.82	16.60	75.40	0.78	23.35
09/09/87	1800	6.62	32.21	11.07	74.80	0.78	23.26
09/09/87	1815	8.90	50.10	5.94	74.10	0.78	23.17
09/09/87	1830	8.98	43.77	13.87	74.90	0.78	23.17
09/09/87	1845	6.07	24.45	6.76	75.30	0.78	23.14
09/09/87	1900	4.33	10.24	22.07	75.40	0.78	23.13
09/09/87	1915	4.91	19.26	19.33	75.90	0.78	23.16
09/09/87	1930	3.87	72.80	25.55	76.00	0.78	23.14
09/09/87	1945	3.37	157.60	16.67	75.50	0.78	23.01
09/09/87	2000	3.45	111.10	11.14	74.10	0.78	23.06
09/09/87	2015	1.99	155.40	5.20	73.50	0.78	23.47
09/09/87	2030	1.85	170.80	8.00	74.70	0.78	23.22
09/09/87	2045	3.01	187.40	5.20	74.10	0.78	23.08
09/09/87	2100	4.12	189.40	2.87	72.90	0.78	24.03
09/09/87	2115	2.87	193.30	6.02	71.90	0.78	24.80
09/09/87	2130	2.08	205.70	5.61	70.60	0.78	24.82
09/09/87	2145	4.30	191.80	2.88	71.50	0.78	24.82
09/09/87	2200	4.48	188.20	4.04	71.40	0.78	24.83
09/09/87	2215	5.62	205.20	13.08	69.86	0.78	24.82
09/09/87	2230	5.64	201.20	2.81	70.10	0.78	24.82
09/09/87	2245	5.98	211.80	2.81	68.76	0.78	24.82
09/09/87	2300	7.86	206.90	2.81	67.81	0.78	24.83
09/09/87	2315	8.46	201.40	2.81	66.99	0.78	24.84
09/09/87	2330	3.81	248.90	13.78	63.86	0.78	24.84
09/09/87	2345	8.79	210.80	2.40	63.75	0.78	24.83
09/10/87	0	9.70	201.80	1.99	63.18	0.78	24.84
09/10/87	15	11.25	204.00	1.65	62.89	0.78	24.84
09/10/87	30	10.71	202.50	1.99	61.33	0.78	24.84
09/10/87	45	9.56	201.20	4.73	60.91	0.78	24.83
09/10/87	100	11.73	198.40	2.40	61.11	0.78	24.82
09/10/87	115	11.56	197.50	3.15	60.56	0.78	24.82
09/10/87	130	11.66	200.20	2.74	59.36	0.78	24.82
09/10/87	145	11.53	197.10	1.99	58.57	0.78	24.83
09/10/87	200	9.98	200.80	2.74	58.40	0.78	24.82
09/10/87	215	11.38	204.10	2.33	58.85	0.78	24.82
09/10/87	230	10.59	204.40	2.74	59.34	0.78	24.82
09/10/87	245	10.04	212.00	2.33	59.60	0.78	24.82
09/10/87	300	7.67	218.60	2.33	59.26	0.78	24.82
09/10/87	315	7.08	223.30	3.16	58.78	0.78	24.82
09/10/87	330	6.77	223.20	3.16	57.95	0.78	24.82
09/10/87	345	8.73	202.40	2.33	58.07	0.78	24.83
09/10/87	400	9.52	196.70	1.92	58.95	0.78	24.84
09/10/87	415	8.27	195.60	1.92	59.01	0.78	24.84
09/10/87	430	8.93	194.10	1.51	58.74	0.78	24.84

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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
09/10/87	445	8.90	195.30	1.92	58.85	0.78	24.84
09/10/87	500	7.82	203.70	1.51	58.85	0.78	24.84
09/10/87	515	6.27	210.60	6.66	58.76	0.78	24.84
09/10/87	530	5.13	232.10	4.32	57.17	0.78	24.84
09/10/87	545	4.28	255.50	6.25	57.91	0.78	24.84
09/10/87	600	4.89	266.30	12.50	57.22	0.78	24.84
09/10/87	615	5.66	325.80	3.98	57.23	0.78	24.84
09/10/87	630	3.28	353.40	4.33	55.97	0.78	24.84
09/10/87	645	0.89	40.57	10.64	53.93	0.78	24.84
09/10/87	700	1.33	281.50	7.48	53.65	0.78	24.85
09/10/87	715	2.44	301.30	17.30	54.66	0.78	24.86
09/10/87	730	1.89	308.60	18.06	54.18	0.78	24.86
09/10/87	745	2.57	221.20	7.14	53.77	0.78	24.86
09/10/87	800	3.07	210.10	9.48	54.08	0.78	24.86
09/10/87	815	3.12	215.10	12.57	54.56	0.78	24.87
09/10/87	830	2.01	193.50	14.56	55.10	0.78	24.87
09/10/87	845	1.97	10.29	17.30	56.11	0.78	24.88
09/10/87	900	4.90	325.20	7.49	56.87	0.78	24.89
09/10/87	915	8.19	338.30	2.40	55.87	0.78	24.90
09/10/87	930	5.76	354.00	6.73	53.95	0.78	24.92
09/10/87	945	5.35	355.10	7.55	54.06	0.78	24.92
09/10/87	1000	7.36	344.40	4.32	56.33	0.78	24.92
09/10/87	1015	7.91	344.50	7.48	57.68	0.78	24.92
09/10/87	1030	8.33	342.40	4.73	58.40	0.78	24.93
09/10/87	1045	8.65	349.40	7.54	58.72	0.78	24.94
09/10/87	1100	10.90	349.80	9.86	58.98	0.78	24.94
09/10/87	1115	8.57	6.58	11.44	59.26	0.78	24.93
09/10/87	1130	9.33	350.50	12.67	59.73	0.78	24.91
09/10/87	1145	9.81	355.50	15.81	59.74	0.78	24.90
09/10/87	1200	8.73	345.90	16.97	60.29	0.78	24.91
09/10/87	1215	6.41	13.47	8.28	60.85	0.78	24.92
09/10/87	1230	5.91	3.40	25.92	61.59	0.78	24.93
09/10/87	1245	6.40	352.00	18.87	61.81	0.78	24.93
09/10/87	1300	6.20	23.01	20.44	62.79	0.78	24.93
09/10/87	1315	3.96	35.69	24.74	63.86	0.78	24.94
09/10/87	1330	5.11	24.00	33.00	63.92	0.78	24.92
09/10/87	1345	3.72	57.50	44.82	64.29	0.78	24.93
09/10/87	1400	4.69	28.97	22.88	65.70	0.78	24.92
09/10/87	1415	6.48	88.90	17.76	65.27	0.78	24.91
09/10/87	1430	6.38	65.44	9.90	65.78	0.78	24.91
09/10/87	1445	4.39	18.19	38.93	65.67	0.78	24.89
09/10/87	1500	5.15	22.74	49.85	66.49	0.78	24.90
09/10/87	1515	5.73	68.60	28.33	67.16	0.78	24.89
09/10/87	1530	4.32	20.61	33.05	67.21	0.78	24.89
09/10/87	1545	5.42	52.04	27.52	67.85	0.78	24.88
09/10/87	1600	3.86	11.97	61.34	67.67	0.78	24.88



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09/10/87	1615	5.20	42.71	8.74	67.98	0.78	24.88
09/10/87	1630	5.26	33.68	11.82	68.09	0.78	24.88
09/10/87	1645	8.22	47.95	13.06	68.62	0.78	24.88
09/10/87	1700	9.81	32.38	11.07	68.16	0.78	24.85
09/10/87	1715	8.37	42.00	12.99	68.25	0.78	24.85
09/10/87	1730	6.67	32.80	11.83	68.51	0.78	24.85
09/10/87	1745	7.72	24.56	11.83	69.03	0.78	24.85
09/10/87	1800	6.23	28.92	22.02	68.46	0.78	24.85
09/10/87	1815	8.50	31.24	4.38	68.08	0.78	24.84
09/10/87	1830	7.27	20.95	12.17	68.71	0.78	24.83
09/10/87	1845	8.60	29.74	6.36	68.34	0.78	24.84
09/10/87	1900	7.31	26.53	15.05	68.76	0.78	24.84
09/10/87	1915	7.09	26.92	7.59	68.53	0.78	24.83
09/10/87	1930	6.99	26.95	7.66	67.38	0.78	24.84
09/10/87	1945	5.97	25.54	5.95	67.15	0.78	24.84
09/10/87	2000	6.36	27.32	8.35	67.49	0.78	24.84
09/10/87	2015	6.48	25.13	5.61	67.20	0.78	24.84
09/10/87	2030	5.47	27.80	3.29	67.36	0.78	24.85
09/10/87	2045	6.00	42.22	2.46	66.30	0.78	24.84
09/10/87	2100	6.07	32.05	1.71	64.81	0.78	24.85
09/10/87	2115	9.18	41.59	2.05	62.97	0.78	24.85
09/10/87	2130	15.37	40.19	4.38	60.01	0.78	24.87
09/10/87	2145	18.08	43.47	3.63	56.14	0.78	24.88
09/10/87	2200	10.97	58.88	5.55	55.11	0.78	24.88
09/10/87	2215	9.29	57.35	9.87	54.98	0.78	24.88
09/10/87	2230	6.81	50.17	12.96	54.91	0.78	24.91
09/10/87	2245	7.61	71.00	4.32	53.84	0.01	24.92
09/10/87	2300	5.46	85.90	51.80	53.61	0.04	24.94
09/10/87	2315	8.74	320.20	5.90	52.62	0.04	24.94
09/10/87	2330	5.05	334.30	7.07	52.70	0.04	24.95
09/10/87	2345	3.45	310.00	3.91	52.90	0.04	24.95
09/11/87	0	2.54	282.30	3.91	52.90	0.04	24.95
09/11/87	15	2.35	254.70	12.91	52.65	0.04	24.96
09/11/87	30	3.63	209.60	3.09	52.29	0.04	24.95
09/11/87	45	6.89	209.50	3.09	51.85	0.04	24.95
09/11/87	100	7.23	213.10	1.92	52.00	0.04	24.95
09/11/87	115	7.27	210.60	3.98	51.62	0.04	24.95
09/11/87	130	6.05	192.00	5.08	51.33	0.04	24.95
09/11/87	145	4.62	189.00	1.92	51.02	0.04	24.95
09/11/87	200	5.65	183.40	1.51	50.70	0.04	24.95
09/11/87	215	6.78	184.70	2.68	50.96	0.04	24.94
09/11/87	230	8.13	180.20	1.51	50.71	0.04	24.93
09/11/87	245	7.45	180.70	1.99	50.77	0.04	24.93
09/11/87	300	7.29	177.10	3.16	50.77	0.04	24.92
09/11/87	315	5.49	148.90	8.17	51.12	0.04	24.92
09/11/87	330	5.83	116.10	1.92	50.51	0.04	24.91

RMA METEOROLOGICAL DATA  
FROM STATION M1  
07/17 - 10/08, 1987

DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
09/11/87	345	6.35	130.00	3.09	48.91	0.04	24.91
09/11/87	400	6.50	137.40	3.92	47.81	0.04	24.90
09/11/87	415	6.96	129.80	3.92	46.96	0.04	24.89
09/11/87	430	8.36	142.90	3.92	48.96	0.04	24.89
09/11/87	445	5.08	148.50	23.50	49.18	0.04	24.89
09/11/87	500	3.12	110.00	3.92	46.72	0.04	24.88
09/11/87	515	3.44	86.60	3.92	46.60	0.04	24.88
09/11/87	530	2.87	83.60	2.68	46.27	0.04	24.88
09/11/87	545	3.20	69.43	5.43	46.21	0.04	24.87
09/11/87	600	3.86	49.01	14.91	44.94	0.04	24.87
09/11/87	615	2.36	32.54	10.93	44.29	0.04	24.87
09/11/87	630	1.90	51.65	7.84	44.20	0.04	24.87
09/11/87	645	1.31	65.04	35.60	44.60	0.04	24.87
09/11/87	700	3.37	256.00	3.09	43.98	0.04	24.86
09/11/87	715	3.50	261.70	3.51	43.96	0.04	24.86
09/11/87	730	4.47	248.30	4.26	43.78	0.04	24.86
09/11/87	745	6.41	260.00	3.92	43.79	0.04	24.86
09/11/87	800	6.50	255.90	1.99	44.52	0.04	24.86
09/11/87	815	6.50	250.30	2.34	45.13	0.04	24.86
09/11/87	830	6.89	240.30	2.75	45.40	0.04	24.86
09/11/87	845	6.42	227.00	3.92	45.36	0.04	24.86
09/11/87	900	7.33	220.10	2.75	45.75	0.04	24.85
09/11/87	915	7.27	215.50	1.58	46.46	0.04	24.85
09/11/87	930	6.82	217.20	3.57	47.15	0.04	24.85
09/11/87	945	4.85	210.70	3.98	48.15	0.04	24.85
09/11/87	1000	4.39	213.90	6.25	49.52	0.04	24.85
09/11/87	1015	3.99	242.80	10.64	50.64	0.04	24.85
09/11/87	1030	5.40	312.70	6.72	51.15	0.04	24.85
09/11/87	1045	7.08	325.00	9.46	51.05	0.04	24.85
09/11/87	1100	8.54	331.70	4.73	52.01	0.04	24.85
09/11/87	1115	8.39	321.00	7.13	52.43	0.04	24.85
09/11/87	1130	8.70	324.00	6.37	53.83	0.05	24.86
09/11/87	1145	10.97	330.70	7.95	54.98	0.05	24.86
09/11/87	1200	10.00	329.00	9.52	55.97	0.05	24.86
09/11/87	1215	10.58	333.00	9.51	56.50	0.05	24.86
09/11/87	1230	9.65	350.10	10.61	57.56	0.05	24.86
09/11/87	1245	9.94	349.70	8.76	57.84	0.05	24.87
09/11/87	1300	9.68	349.50	13.00	58.57	0.05	24.87
09/11/87	1315	8.10	4.18	16.14	59.53	0.05	24.87
09/11/87	1330	8.22	8.44	18.47	60.42	0.05	24.87
09/11/87	1345	9.63	343.00	11.42	61.27	0.05	24.86
09/11/87	1400	9.43	352.20	18.46	62.17	0.05	24.85
09/11/87	1415	7.57	5.15	11.83	63.50	0.05	24.85
09/11/87	1430	12.49	28.05	11.83	64.18	0.05	24.86
09/11/87	1445	12.13	32.08	7.18	64.93	0.05	24.85
09/11/87	1500	14.25	39.79	11.49	65.31	0.05	24.85

RMA METEOROLOGICAL DATA  
FROM STATION M1  
07/17 - 10/08, 1987

DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
09/11/87	1515	14.31	48.80	9.50	65.93	0.05	24.85
09/11/87	1530	13.36	53.82	10.67	66.32	0.05	24.85
09/11/87	1545	11.79	46.85	7.93	67.07	0.05	24.85
09/11/87	1600	11.70	49.67	14.22	66.87	0.05	24.85
09/11/87	1615	13.64	45.82	9.09	67.01	0.05	24.84
09/11/87	1630	16.59	47.59	11.08	65.66	0.05	24.84
09/11/87	1645	16.29	37.45	5.13	64.99	0.05	24.84
09/11/87	1700	14.98	32.79	5.61	65.17	0.05	24.84
09/11/87	1715	14.94	40.48	13.89	65.90	0.05	24.84
09/11/87	1730	14.83	36.62	11.08	65.69	0.05	24.84
09/11/87	1745	12.99	39.05	22.92	66.30	0.05	24.84
09/11/87	1800	15.78	42.48	5.88	63.91	0.05	24.84
09/11/87	1815	13.61	51.13	9.51	64.93	0.05	24.84
09/11/87	1830	16.11	44.08	7.19	63.58	0.05	24.84
09/11/87	1845	12.18	40.32	9.93	63.55	0.05	24.85
09/11/87	1900	10.43	50.76	9.11	64.27	0.05	24.85
09/11/87	1915	9.85	59.65	8.08	63.74	0.05	24.85
09/11/87	1930	8.45	65.17	5.96	63.21	0.05	24.85
09/11/87	1945	9.39	73.20	6.37	62.71	0.05	24.86
09/11/87	2000	9.40	90.70	3.63	62.20	0.05	24.87
09/11/87	2015	11.80	102.50	4.80	61.84	0.05	24.87
09/11/87	2030	10.58	101.90	4.04	61.79	0.05	24.86
09/11/87	2045	8.31	107.00	5.21	61.52	0.05	24.86
09/11/87	2100	8.49	108.20	4.39	61.16	0.05	24.86
09/11/87	2115	7.89	109.60	4.80	60.82	0.05	24.87
09/11/87	2130	8.52	118.00	5.96	60.66	0.05	24.87
09/11/87	2145	7.95	127.80	3.22	59.91	0.05	24.87
09/11/87	2200	5.98	124.70	3.15	59.17	0.05	24.87
09/11/87	2215	6.75	131.20	2.74	58.86	0.05	24.87
09/11/87	2230	7.62	127.30	1.99	58.22	0.05	24.87
09/11/87	2245	7.60	130.60	1.17	57.56	0.05	24.87
09/11/87	2300	7.99	137.50	1.99	57.18	0.05	24.87
09/11/87	2315	8.51	149.00	14.13	56.44	0.05	24.88
09/11/87	2330	7.71	159.30	3.16	56.51	0.05	24.88
09/11/87	2345	6.27	161.70	3.57	57.04	0.05	24.89
09/12/87	0	5.60	162.20	4.32	56.95	0.05	24.88
09/12/87	15	5.76	169.30	2.40	57.43	0.05	24.88
09/12/87	30	3.73	154.70	7.07	56.87	0.05	24.88
09/12/87	45	3.86	156.80	5.49	56.67	0.05	24.89
09/12/87	100	4.74	156.40	5.49	56.49	0.05	24.88
09/12/87	115	5.90	169.00	3.57	55.93	0.05	24.88
09/12/87	130	4.43	166.70	1.99	55.24	0.05	24.88
09/12/87	145	4.97	180.00	1.92	55.10	0.05	24.88
09/12/87	200	5.28	172.00	3.50	54.76	0.05	24.88
09/12/87	215	7.79	146.70	4.32	52.71	0.05	24.87
09/12/87	230	9.34	164.50	3.50	53.17	0.05	24.87

RMA METEOROLOGICAL DATA  
FROM STATION M1  
07/17 - 10/08, 1987

DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
09/12/87	245	10.76	161.50	3.50	54.37	0.05	24.87
09/12/87	300	9.49	151.40	5.49	52.74	0.05	24.87
09/12/87	315	8.32	152.50	5.08	51.82	0.05	24.87
09/12/87	330	7.97	151.50	4.33	51.26	0.05	24.86
09/12/87	345	8.20	160.10	3.50	51.38	0.05	24.86
09/12/87	400	10.45	156.70	2.68	53.00	0.05	24.86
09/12/87	415	9.53	154.80	4.26	51.81	0.05	24.85
09/12/87	430	10.60	154.20	3.50	50.82	0.05	24.84
09/12/87	445	9.32	154.00	3.09	49.58	0.05	24.84
09/12/87	500	9.88	160.50	1.99	49.14	0.05	24.84
09/12/87	515	9.43	170.30	2.75	49.49	0.05	24.84
09/12/87	530	7.48	175.90	1.58	49.68	0.05	24.85
09/12/87	545	6.00	181.10	3.16	49.48	0.05	24.85
09/12/87	600	4.94	223.10	3.16	48.92	0.05	24.84
09/12/87	615	5.20	232.80	4.67	49.12	0.05	24.84
09/12/87	630	5.71	214.80	1.58	49.07	0.05	24.84
09/12/87	645	5.42	207.50	2.75	48.80	0.05	24.83
09/12/87	700	6.04	197.40	1.99	49.10	0.05	24.83
09/12/87	715	6.23	207.20	2.34	49.03	0.05	24.83
09/12/87	730	6.34	206.30	2.40	48.65	0.05	24.83
09/12/87	745	7.12	216.30	2.75	48.82	0.05	24.83
09/12/87	800	6.94	214.20	3.16	48.29	0.05	24.82
09/12/87	815	5.87	210.40	2.34	48.37	0.05	24.82
09/12/87	830	6.72	205.70	2.40	48.00	0.05	24.82
09/12/87	845	5.82	204.20	2.40	47.91	0.05	24.82
09/12/87	900	2.79	205.50	41.22	47.58	0.05	24.82
09/12/87	915	3.25	201.00	1.99	47.61	0.05	24.81
09/12/87	930	4.32	194.60	5.56	47.82	0.05	24.81
09/12/87	945	3.62	222.60	7.49	49.10	0.05	24.81
09/12/87	1000	3.65	239.20	5.08	49.69	0.05	24.81
09/12/87	1015	4.53	242.00	3.57	50.53	0.05	24.81
09/12/87	1030	4.12	268.90	14.95	51.52	0.05	24.81
09/12/87	1045	4.09	269.10	16.59	52.49	0.05	24.81
09/12/87	1100	3.87	281.50	13.43	53.45	0.05	24.81
09/12/87	1115	3.69	326.50	9.52	54.18	0.05	24.80
09/12/87	1130	3.17	309.60	16.22	55.11	0.05	24.80
09/12/87	1145	1.93	357.70	20.05	57.78	0.05	24.79
09/12/87	1200	2.67	228.70	20.04	59.01	0.05	24.79
09/12/87	1215	2.53	228.20	40.47	60.08	0.05	24.79
09/12/87	1230	3.06	228.50	27.06	61.31	0.05	24.79
09/12/87	1245	3.49	222.70	17.69	62.86	0.05	24.78
09/12/87	1300	5.13	196.80	16.59	64.10	0.05	24.78
09/12/87	1315	3.61	187.20	30.65	66.24	0.05	24.77
09/12/87	1330	3.70	155.70	28.73	68.50	0.05	24.77
09/12/87	1345	6.13	160.50	17.81	70.00	0.05	24.76
09/12/87	1400	7.09	150.30	18.15	71.90	0.05	24.76

RMA METEOROLOGICAL DATA  
FROM STATION M1  
07/17 - 10/08, 1987

DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
09/12/87	1415	7.67	162.20	10.78	73.30	0.05	24.74
09/12/87	1430	7.86	157.00	7.98	74.40	0.05	24.74
09/12/87	1445	6.59	166.00	17.39	74.90	0.05	24.74
09/12/87	1500	5.04	185.10	21.34	76.00	0.05	24.73
09/12/87	1515	5.08	157.70	26.39	76.30	0.05	24.73
09/12/87	1530	4.56	167.60	17.79	77.00	0.05	24.72
09/12/87	1545	4.03	159.70	27.19	77.90	0.05	24.71
09/12/87	1600	6.36	190.00	25.63	77.40	0.05	24.70
09/12/87	1615	4.60	162.00	23.31	78.60	0.05	24.70
09/12/87	1630	4.59	112.70	42.54	78.90	0.05	24.70
09/12/87	1645	2.98	122.40	75.80	79.70	0.05	24.70
09/12/87	1700	4.34	204.90	18.20	79.90	0.05	24.69
09/12/87	1715	5.84	151.80	7.63	79.50	0.05	24.68
09/12/87	1730	3.46	134.20	30.34	80.60	0.05	24.68
09/12/87	1745	3.50	65.30	20.59	80.80	0.05	24.68
09/12/87	1800	4.08	131.30	17.46	80.40	0.05	24.66
09/12/87	1815	3.41	107.80	46.45	80.80	0.05	24.67
09/12/87	1830	3.50	179.10	13.09	80.70	0.05	24.67
09/12/87	1845	2.06	105.40	55.53	81.90	0.05	24.66
09/12/87	1900	4.14	342.50	10.44	80.50	0.05	24.67
09/12/87	1915	4.89	335.50	6.48	79.70	0.05	24.67
09/12/87	1930	5.75	348.30	8.80	78.70	0.05	24.67
09/12/87	1945	5.36	359.00	12.70	78.70	0.05	24.67
09/12/87	2000	5.02	21.54	5.60	78.40	0.05	24.68
09/12/87	2015	4.15	19.71	8.74	77.50	0.05	24.68
09/12/87	2030	3.39	21.30	5.60	76.70	0.05	24.67
09/12/87	2045	3.64	14.44	2.05	75.00	0.05	24.68
09/12/87	2100	7.74	31.43	10.67	72.00	0.05	24.68
09/12/87	2115	5.63	56.75	9.17	71.10	0.05	24.69
09/12/87	2130	5.95	104.40	20.46	70.90	0.05	24.69
09/12/87	2145	10.44	178.80	5.61	71.90	0.05	24.69
09/12/87	2200	11.27	180.50	3.22	70.80	0.05	24.69
09/12/87	2215	9.84	203.60	3.22	68.80	0.05	24.69
09/12/87	2230	9.11	205.40	2.46	66.66	0.05	24.69
09/12/87	2245	10.59	200.30	2.06	65.98	0.05	24.70
09/12/87	2300	8.51	197.00	4.79	65.38	0.05	24.70
09/12/87	2315	7.57	199.10	2.40	64.90	0.05	24.71
09/12/87	2330	7.70	197.80	3.22	64.34	0.05	24.71
09/12/87	2345	8.44	190.40	4.39	62.86	0.05	24.71
09/13/87	0	9.58	184.10	4.39	61.79	0.05	24.71
09/13/87	15	9.84	193.00	3.98	62.21	0.05	24.71
09/13/87	30	9.80	194.60	3.15	62.18	0.05	24.72
09/13/87	45	9.50	193.80	1.99	61.54	0.05	24.72
09/13/87	100	10.40	193.80	2.40	61.74	0.05	24.72
09/13/87	115	9.15	197.10	5.14	61.55	0.05	24.72
09/13/87	130	9.45	197.90	2.33	60.56	0.05	24.72

APPENDIX B  
RMA METEOROLOGICAL DATA  
FROM STATION M1  
07/17 - 10/08, 1987

DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
09/13/87	145	8.80	199.90	2.33	60.16	0.05	24.72
09/13/87	200	8.90	198.20	1.58	59.62	0.05	24.72
09/13/87	215	9.94	196.10	1.99	59.50	0.05	24.72
09/13/87	230	9.33	198.60	1.99	59.25	0.05	24.72
09/13/87	245	6.36	231.80	10.57	58.19	0.05	24.72
09/13/87	300	4.76	249.10	7.48	58.01	0.05	24.73
09/13/87	315	4.71	231.10	4.32	58.96	0.05	24.73
09/13/87	330	5.39	217.60	2.33	57.74	0.05	24.73
09/13/87	345	5.72	216.10	3.16	58.97	0.05	24.73
09/13/87	400	7.10	214.60	0.82	59.63	0.05	24.73
09/13/87	415	7.65	211.60	1.58	58.72	0.05	24.73
09/13/87	430	6.51	202.40	0.82	59.01	0.05	24.73
09/13/87	445	7.53	200.10	1.17	59.38	0.05	24.73
09/13/87	500	6.82	198.90	3.16	58.64	0.05	24.73
09/13/87	515	7.43	194.00	2.40	57.69	0.05	24.73
09/13/87	530	7.91	198.70	1.10	57.53	0.05	24.73
09/13/87	545	8.29	201.50	1.58	58.16	0.05	24.73
09/13/87	600	9.18	201.50	1.17	57.54	0.05	24.73
09/13/87	615	6.53	206.40	1.99	56.88	0.05	24.73
09/13/87	630	6.49	205.80	1.58	57.10	0.05	24.74
09/13/87	645	7.25	199.80	2.40	57.88	0.05	24.74
09/13/87	700	8.37	193.30	1.58	57.31	0.05	24.74
09/13/87	715	7.79	201.50	1.65	56.32	0.05	24.74
09/13/87	730	7.65	199.50	1.24	56.95	0.05	24.74
09/13/87	745	7.71	197.70	1.99	56.98	0.05	24.74
09/13/87	800	6.58	202.00	2.40	57.26	0.05	24.74
09/13/87	815	7.22	195.10	1.17	57.50	0.05	24.75
09/13/87	830	8.28	191.50	1.17	57.43	0.05	24.75
09/13/87	845	9.39	194.50	2.33	58.09	0.05	24.75
09/13/87	900	9.90	201.90	1.58	58.09	0.05	24.76
09/13/87	915	7.93	198.60	1.99	57.24	0.05	24.76
09/13/87	930	7.47	204.70	3.16	57.16	0.05	24.76
09/13/87	945	10.14	199.40	2.75	58.08	0.05	24.76
09/13/87	1000	9.31	205.90	2.74	60.24	0.05	24.77
09/13/87	1015	9.49	210.00	4.73	62.17	0.05	24.77
09/13/87	1030	11.14	210.20	3.22	63.30	0.05	24.76
09/13/87	1045	10.99	208.20	4.04	64.34	0.05	24.76
09/13/87	1100	12.21	208.60	5.96	65.39	0.05	24.76
09/13/87	1115	12.94	209.50	6.78	66.34	0.05	24.76
09/13/87	1130	12.45	206.60	3.63	68.18	0.05	24.76
09/13/87	1145	11.11	209.00	6.77	69.80	0.05	24.76
09/13/87	1200	10.35	211.30	5.54	71.20	0.05	24.75
09/13/87	1215	8.75	205.70	7.59	72.80	0.05	24.75
09/13/87	1230	8.08	209.40	7.17	74.40	0.05	24.75
09/13/87	1245	7.51	204.30	11.13	75.80	0.05	24.75
09/13/87	1300	6.58	199.00	10.38	77.70	0.05	24.74

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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
09/13/87	1315	6.25	218.70	16.99	79.00	0.05	24.75
09/13/87	1330	5.93	237.50	18.96	80.60	0.05	24.74
09/13/87	1345	5.99	244.20	15.89	80.70	0.05	24.75
09/13/87	1400	6.81	246.90	10.77	81.20	0.05	24.74
09/13/87	1415	6.22	199.00	11.51	81.60	0.05	24.74
09/13/87	1430	3.29	168.50	32.77	83.00	0.05	24.74
09/13/87	1445	6.25	138.50	47.60	82.10	0.05	24.74
09/13/87	1500	4.41	167.50	39.84	82.80	0.05	24.73
09/13/87	1515	6.77	178.60	14.71	82.50	0.05	24.73
09/13/87	1530	5.47	220.10	15.46	82.40	0.05	24.72
09/13/87	1545	6.34	212.00	10.42	82.50	0.05	24.71
09/13/87	1600	6.64	183.10	24.86	83.10	0.05	24.71
09/13/87	1615	6.27	159.30	13.96	83.40	0.05	24.70
09/13/87	1630	6.36	189.00	13.90	83.20	0.05	24.70
09/13/87	1645	5.72	161.10	41.36	83.90	0.05	24.70
09/13/87	1700	6.36	200.80	20.17	82.40	0.05	24.70
09/13/87	1715	6.98	224.20	7.16	82.20	0.05	24.71
09/13/87	1730	10.58	226.60	12.69	82.10	0.05	24.70
09/13/87	1745	20.18	261.20	5.25	81.10	0.05	24.70
09/13/87	1800	18.68	275.50	4.03	80.10	0.05	24.70
09/13/87	1815	16.64	294.70	5.19	79.00	0.05	24.70
09/13/87	1830	15.46	304.90	4.03	78.90	0.05	24.70
09/13/87	1845	14.13	307.00	4.85	78.40	0.05	24.70
09/13/87	1900	12.80	310.30	5.60	78.60	0.05	24.70
09/13/87	1915	10.36	322.80	4.44	78.80	0.05	24.70
09/13/87	1930	8.51	328.70	5.19	77.80	0.05	24.70
09/13/87	1945	6.67	326.20	3.62	76.70	0.05	24.70
09/13/87	2000	6.63	313.30	1.64	75.90	0.05	24.70
09/13/87	2015	6.22	316.00	1.23	75.80	0.05	24.70
09/13/87	2030	5.62	292.10	11.15	75.70	0.05	24.70
09/13/87	2045	12.17	257.30	7.53	74.10	0.05	24.72
09/13/87	2100	28.10	266.60	7.53	74.80	0.05	24.73
09/13/87	2115	18.86	282.10	10.74	75.30	0.05	24.76
09/13/87	2130	14.20	9.73	11.91	73.90	0.05	24.76
09/13/87	2145	9.62	46.80	7.19	73.30	0.05	24.76
09/13/87	2200	5.39	5.41	48.32	72.50	0.05	24.79
09/13/87	2215	15.77	277.40	4.04	68.55	0.05	24.81
09/13/87	2230	11.90	306.90	4.79	67.76	0.05	24.80
09/13/87	2245	7.45	306.80	4.38	67.01	0.05	24.80
09/13/87	2300	5.29	323.50	9.52	66.86	0.05	24.80
09/13/87	2315	7.85	295.50	3.63	66.57	0.05	24.80
09/13/87	2330	8.89	300.20	3.63	66.25	0.05	24.80
09/13/87	2345	6.90	294.60	3.63	65.72	0.05	24.80
09/14/87	0	4.49	281.10	9.87	65.69	0.05	24.80
09/14/87	15	4.79	246.90	6.31	65.51	0.05	24.82
09/14/87	30	5.33	238.40	9.46	65.19	0.05	24.82

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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
09/14/87	45	3.93	228.40	16.11	64.03	0.05	24.82
09/14/87	100	2.43	222.00	16.93	63.72	0.05	24.82
09/14/87	115	1.24	171.80	6.31	63.44	0.05	24.81
09/14/87	130	5.90	205.30	1.99	64.06	0.05	24.81
09/14/87	145	7.59	233.40	2.33	61.90	0.05	24.81
09/14/87	200	5.64	227.20	3.57	61.93	0.05	24.81
09/14/87	215	6.26	213.40	2.33	62.88	0.05	24.81
09/14/87	230	7.60	206.60	2.33	62.60	0.05	24.80
09/14/87	245	9.44	204.40	2.33	61.31	0.05	24.80
09/14/87	300	7.86	197.40	3.98	60.71	0.05	24.80
09/14/87	315	9.09	199.00	2.33	60.25	0.05	24.80
09/14/87	330	10.05	210.10	1.58	59.96	0.05	24.80
09/14/87	345	8.45	212.80	2.74	59.68	0.05	24.80
09/14/87	400	7.14	223.40	2.74	58.91	0.05	24.80
09/14/87	415	6.78	219.70	2.74	58.70	0.05	24.80
09/14/87	430	6.01	226.90	3.50	58.38	0.05	24.80
09/14/87	445	6.92	216.90	12.97	59.62	0.05	24.80
09/14/87	500	5.73	180.30	5.49	59.18	0.05	24.80
09/14/87	515	3.37	174.30	8.65	58.40	0.05	24.81
09/14/87	530	5.77	161.60	1.92	59.34	0.05	24.80
09/14/87	545	6.60	175.90	3.91	58.83	0.05	24.80
09/14/87	600	8.20	162.90	3.91	59.12	0.05	24.80
09/14/87	615	7.01	183.40	3.16	59.28	0.05	24.80
09/14/87	630	5.34	153.50	9.88	60.16	0.05	24.79
09/14/87	645	7.36	193.00	5.56	59.89	0.05	24.78
09/14/87	700	7.02	183.70	4.32	59.75	0.05	24.78
09/14/87	715	6.90	189.30	5.90	59.55	0.05	24.78
09/14/87	730	3.54	174.30	27.03	58.18	0.05	24.78
09/14/87	745	5.79	183.80	6.31	57.33	0.05	24.79
09/14/87	800	3.46	179.00	7.48	57.90	0.05	24.80
09/14/87	815	6.23	188.40	2.33	59.35	0.05	24.80
09/14/87	830	6.46	194.80	1.58	59.64	0.05	24.80
09/14/87	845	7.20	201.60	1.24	59.29	0.05	24.80
09/14/87	900	6.53	192.90	3.98	58.67	0.05	24.81
09/14/87	915	7.58	196.20	3.57	58.61	0.05	24.81
09/14/87	930	7.72	185.90	2.81	57.51	0.05	24.81
09/14/87	945	6.33	207.70	3.57	58.45	0.05	24.81
09/14/87	1000	5.63	213.20	6.31	59.74	0.05	24.81
09/14/87	1015	4.74	232.10	3.56	61.31	0.05	24.81
09/14/87	1030	5.96	236.10	7.19	62.91	0.05	24.81
09/14/87	1045	5.30	243.10	8.35	65.06	0.05	24.81
09/14/87	1100	3.37	257.30	14.65	67.01	0.05	24.80
09/14/87	1115	3.81	282.70	30.30	68.09	0.05	24.80
09/14/87	1130	4.17	3.75	13.06	67.91	0.05	24.79
09/14/87	1145	5.73	18.88	12.23	67.66	0.05	24.80
09/14/87	1200	5.24	10.34	7.17	68.08	0.05	24.81



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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
09/14/87	1215	6.05	23.22	21.65	68.89	0.05	24.80
09/14/87	1230	4.09	20.77	39.34	69.37	0.05	24.81
09/14/87	1245	5.76	5.90	15.36	70.00	0.05	24.80
09/14/87	1300	8.66	345.30	17.75	70.00	0.05	24.80
09/14/87	1315	6.70	1.05	12.63	70.50	0.05	24.80
09/14/87	1330	8.37	7.68	9.14	70.50	0.05	24.80
09/14/87	1345	9.18	6.49	11.12	70.80	0.05	24.80
09/14/87	1400	7.09	1.99	9.96	71.30	0.05	24.80
09/14/87	1415	6.85	4.00	18.15	71.60	0.05	24.79
09/14/87	1430	7.82	5.35	23.26	71.70	0.05	24.78
09/14/87	1445	6.08	4.59	25.58	72.10	0.05	24.78
09/14/87	1500	7.55	1.43	24.02	72.80	0.05	24.77
09/14/87	1515	8.65	35.21	26.33	73.80	0.05	24.77
09/14/87	1530	6.36	37.02	18.15	73.80	0.05	24.76
09/14/87	1545	8.51	42.13	11.87	74.10	0.05	24.76
09/14/87	1600	7.36	76.20	22.11	74.50	0.05	24.76
09/14/87	1615	6.74	54.59	18.15	74.70	0.05	24.76
09/14/87	1630	4.77	10.71	15.08	75.00	0.05	24.75
09/14/87	1645	12.53	30.69	10.71	74.70	0.05	24.74
09/14/87	1700	11.31	41.53	11.12	74.80	0.05	24.73
09/14/87	1715	9.10	30.84	13.11	74.90	0.05	24.73
09/14/87	1730	8.44	21.66	23.62	75.30	0.05	24.72
09/14/87	1745	8.55	37.27	11.54	75.90	0.05	24.71
09/14/87	1800	7.34	33.49	18.57	75.90	0.05	24.71
09/14/87	1815	7.12	4.48	28.00	75.90	0.05	24.70
09/14/87	1830	8.22	26.91	13.11	74.60	0.05	24.71
09/14/87	1845	9.44	57.70	4.85	73.00	0.05	24.71
09/14/87	1900	9.16	36.19	6.77	71.90	0.05	24.72
09/14/87	1915	9.92	16.90	13.81	68.81	0.05	24.71
09/14/87	1930	12.28	342.30	9.17	65.57	0.05	24.72
09/14/87	1945	8.91	1.35	12.66	57.82	0.26	24.74
09/14/87	2000	19.69	327.70	7.12	54.42	0.50	24.75
09/14/87	2015	17.30	333.50	3.56	54.96	0.65	24.77
09/14/87	2030	11.92	330.30	6.31	55.82	0.74	24.78
09/14/87	2045	10.84	322.60	5.49	55.68	0.82	24.80
09/14/87	2100	15.39	327.70	3.15	55.35	0.89	24.82
09/14/87	2115	14.78	318.20	3.16	54.78	0.92	24.82
09/14/87	2130	13.14	330.20	1.99	54.09	0.93	24.82
09/14/87	2145	11.78	337.00	3.57	53.54	0.98	24.83
09/14/87	2200	13.30	333.40	10.98	52.90	0.02	24.83
09/14/87	2215	13.36	310.10	3.50	52.64	0.06	24.85
09/14/87	2230	15.89	310.80	2.75	52.32	0.09	24.85
09/14/87	2245	18.42	317.70	2.75	51.41	0.13	24.85
09/14/87	2300	17.51	313.30	3.16	52.29	0.15	24.85
09/14/87	2315	23.97	308.50	2.75	52.66	0.16	24.84
09/14/87	2330	23.77	317.20	5.49	52.38	0.16	24.84

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09/14/87	2345	18.20	336.00	4.67	52.32	0.16	24.85
09/15/87	0	11.66	353.60	5.84	51.87	0.16	24.86
09/15/87	15	17.23	337.20	3.91	52.24	0.16	24.86
09/15/87	30	10.86	347.40	6.25	51.96	0.16	24.86
09/15/87	45	6.76	337.00	8.24	51.73	0.16	24.86
09/15/87	100	6.43	342.10	8.99	51.59	0.16	24.86
09/15/87	115	3.83	340.80	7.83	51.38	0.16	24.86
09/15/87	130	3.77	340.60	7.07	51.32	0.16	24.86
09/15/87	145	5.67	295.80	6.66	51.53	0.16	24.86
09/15/87	200	6.18	282.20	4.26	51.49	0.16	24.86
09/15/87	215	7.92	259.10	5.08	51.38	0.16	24.86
09/15/87	230	7.46	259.00	6.25	51.45	0.16	24.85
09/15/87	245	6.76	295.80	6.66	51.92	0.16	24.84
09/15/87	300	4.46	331.20	13.73	52.11	0.16	24.84
09/15/87	315	3.98	136.60	3.91	52.00	0.16	24.84
09/15/87	330	3.39	109.00	16.13	52.95	0.16	24.84
09/15/87	345	2.46	322.80	4.74	53.30	0.16	24.83
09/15/87	400	7.59	235.10	4.33	52.88	0.16	24.83
09/15/87	415	7.98	220.20	3.50	51.57	0.16	24.82
09/15/87	430	6.78	214.20	3.91	51.32	0.16	24.82
09/15/87	445	5.85	221.20	3.50	51.04	0.16	24.82
09/15/87	500	5.08	208.00	2.68	51.06	0.16	24.81
09/15/87	515	3.77	252.00	3.50	50.93	0.16	24.81
09/15/87	530	3.31	270.50	6.25	51.28	0.16	24.81
09/15/87	545	2.00	288.60	19.16	51.10	0.16	24.81
09/15/87	600	2.10	207.20	4.67	51.16	0.16	24.80
09/15/87	615	2.26	207.30	9.48	51.43	0.16	24.80
09/15/87	630	4.28	169.50	4.74	51.47	0.16	24.80
09/15/87	645	3.73	189.10	11.47	51.75	0.16	24.80
09/15/87	700	2.15	184.20	9.89	51.56	0.16	24.80
09/15/87	715	3.68	190.60	3.91	51.75	0.16	24.79
09/15/87	730	3.98	194.90	4.67	52.17	0.16	24.79
09/15/87	745	4.68	214.40	3.16	52.51	0.16	24.79
09/15/87	800	4.45	213.20	2.75	52.35	0.16	24.79
09/15/87	815	4.41	246.70	6.25	52.03	0.16	24.79
09/15/87	830	5.46	281.50	2.33	52.36	0.16	24.79
09/15/87	845	4.14	300.00	3.57	52.80	0.16	24.79
09/15/87	900	5.06	317.30	2.40	53.01	0.16	24.80
09/15/87	915	3.79	318.60	3.50	53.11	0.16	24.78
09/15/87	930	2.63	340.40	8.24	53.67	0.16	24.78
09/15/87	945	1.56	325.40	21.22	54.08	0.16	24.78
09/15/87	1000	1.81	306.30	7.49	54.55	0.16	24.77
09/15/87	1015	0.57	225.70	23.14	55.06	0.16	24.78
09/15/87	1030	2.93	235.70	4.74	55.12	0.16	24.77
09/15/87	1045	3.43	210.60	7.07	55.15	0.16	24.77
09/15/87	1100	4.04	218.10	8.30	55.52	0.16	24.77

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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
09/15/87	1115	3.09	234.50	8.30	56.25	0.16	24.77
09/15/87	1130	3.96	251.40	6.72	56.93	0.16	24.77
09/15/87	1145	5.42	256.80	15.71	57.43	0.16	24.77
09/15/87	1200	5.46	255.70	5.14	57.94	0.16	24.77
09/15/87	1215	4.42	271.70	8.71	58.56	0.16	24.77
09/15/87	1230	5.10	297.50	8.30	59.47	0.16	24.77
09/15/87	1245	8.75	328.30	9.05	61.06	0.16	24.76
09/15/87	1300	11.19	323.90	6.37	62.20	0.16	24.76
09/15/87	1315	12.16	332.40	4.38	62.98	0.16	24.74
09/15/87	1330	12.57	338.60	8.76	63.07	0.16	24.74
09/15/87	1345	11.27	344.90	9.92	63.61	0.16	24.73
09/15/87	1400	12.69	340.40	8.76	63.97	0.16	24.73
09/15/87	1415	12.75	333.50	8.76	64.00	0.16	24.72
09/15/87	1430	12.53	319.60	8.35	64.42	0.16	24.71
09/15/87	1445	13.47	329.10	10.27	64.59	0.16	24.71
09/15/87	1500	12.71	328.90	10.68	64.27	0.16	24.70
09/15/87	1515	12.11	335.40	3.56	63.91	0.16	24.72
09/15/87	1530	9.27	342.80	6.37	63.66	0.16	24.72
09/15/87	1545	8.68	345.90	7.19	64.23	0.16	24.72
09/15/87	1600	7.14	344.90	12.60	64.09	0.16	24.71
09/15/87	1615	7.73	22.24	9.52	62.94	0.16	24.72
09/15/87	1630	16.74	44.42	4.79	61.39	0.16	24.72
09/15/87	1645	16.40	49.77	11.03	58.37	0.16	24.73
09/15/87	1700	12.92	77.60	4.73	57.38	0.16	24.73
09/15/87	1715	11.05	80.10	7.54	58.03	0.16	24.73
09/15/87	1730	10.20	83.80	8.29	59.55	0.16	24.72
09/15/87	1745	9.53	98.70	15.01	61.14	0.16	24.70
09/15/87	1800	6.12	152.90	15.07	62.76	0.16	24.70
09/15/87	1815	7.46	214.80	7.60	62.82	0.16	24.69
09/15/87	1830	6.07	228.10	5.62	62.46	0.16	24.70
09/15/87	1845	7.33	230.00	9.11	62.40	0.16	24.71
09/15/87	1900	8.66	211.90	9.52	62.83	0.16	24.70
09/15/87	1915	5.30	212.10	10.69	62.77	0.16	24.70
09/15/87	1930	7.02	245.00	4.79	63.19	0.16	24.70
09/15/87	1945	4.57	237.00	22.06	62.51	0.16	24.71
09/15/87	2000	2.06	208.70	5.62	62.52	0.16	24.71
09/15/87	2015	5.20	208.00	2.81	62.32	0.16	24.71
09/15/87	2030	4.34	216.40	9.46	62.14	0.16	24.71
09/15/87	2045	4.92	274.50	5.14	62.01	0.16	24.71
09/15/87	2100	5.32	309.10	9.87	61.81	0.16	24.71
09/15/87	2115	6.24	282.40	3.98	61.56	0.16	24.71
09/15/87	2130	5.01	258.60	5.14	60.68	0.16	24.72
09/15/87	2145	3.49	255.50	13.37	60.07	0.16	24.72
09/15/87	2200	2.68	208.30	5.14	59.46	0.16	24.72
09/15/87	2215	1.92	204.20	9.05	59.93	0.16	24.72
09/15/87	2230	5.26	89.20	8.64	57.53	0.16	24.72

RMA METEOROLOGICAL DATA  
FROM STATION M1  
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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
09/15/87	2245	5.98	100.90	4.73	57.22	0.16	24.72
09/15/87	2300	7.35	111.50	6.31	56.65	0.16	24.72
09/15/87	2315	7.39	131.10	1.99	55.58	0.16	24.73
09/15/87	2330	7.31	143.80	4.74	55.42	0.16	24.74
09/15/87	2345	7.29	152.60	1.58	56.41	0.16	24.74
09/16/87	0	5.53	143.60	1.58	58.00	0.16	24.74
09/16/87	15	3.33	134.20	3.91	55.32	0.16	24.74
09/16/87	30	4.64	26.31	6.25	51.88	0.16	24.74
09/16/87	45	3.92	73.30	43.87	51.49	0.16	24.75
09/16/87	100	3.40	215.60	6.66	52.27	0.16	24.74
09/16/87	115	1.61	223.00	25.40	53.15	0.16	24.74
09/16/87	130	0.14	71.40	59.05	52.28	0.16	24.74
09/16/87	145	2.97	85.40	12.09	53.66	0.16	24.74
09/16/87	200	6.84	158.60	3.09	53.33	0.16	24.75
09/16/87	215	8.08	148.40	2.68	54.89	0.16	24.75
09/16/87	230	7.49	145.20	1.58	55.16	0.16	24.75
09/16/87	245	7.14	168.00	5.08	54.55	0.16	24.75
09/16/87	300	2.99	148.60	17.24	50.95	0.16	24.75
09/16/87	315	1.45	137.30	21.91	50.35	0.16	24.75
09/16/87	330	1.25	171.80	9.41	50.39	0.16	24.75
09/16/87	345	1.04	248.20	1.58	50.01	0.16	24.75
09/16/87	400	2.67	192.90	7.49	50.21	0.16	24.75
09/16/87	415	2.92	185.90	30.85	51.45	0.16	24.75
09/16/87	430	3.71	126.90	4.67	51.02	0.16	24.73
09/16/87	445	4.94	137.50	5.08	52.26	0.16	24.74
09/16/87	500	6.90	151.60	10.99	49.53	0.16	24.74
09/16/87	515	5.52	159.20	7.49	48.89	0.16	24.73
09/16/87	530	3.57	131.60	6.32	51.71	0.16	24.73
09/16/87	545	5.41	153.60	7.49	49.73	0.16	24.73
09/16/87	600	7.29	157.10	3.50	50.76	0.16	24.73
09/16/87	615	6.40	152.70	7.90	51.71	0.16	24.73
09/16/87	630	6.98	142.60	3.50	49.12	0.16	24.73
09/16/87	645	5.02	156.60	10.24	47.55	0.16	24.74
09/16/87	700	2.21	138.10	10.24	47.05	0.16	24.74
09/16/87	715	3.60	239.70	9.07	46.73	0.16	24.74
09/16/87	730	4.37	239.30	6.32	45.71	0.16	24.74
09/16/87	745	5.02	227.70	1.58	47.36	0.16	24.74
09/16/87	800	5.26	227.00	9.83	47.35	0.16	24.74
09/16/87	815	6.40	208.90	1.58	47.79	0.16	24.74
09/16/87	830	5.27	212.20	2.75	48.60	0.16	24.74
09/16/87	845	4.58	205.50	4.74	48.86	0.16	24.74
09/16/87	900	2.71	182.30	3.57	47.93	0.16	24.74
09/16/87	915	4.96	190.30	17.25	47.67	0.16	24.74
09/16/87	930	5.03	209.70	3.98	49.04	0.16	24.74
09/16/87	945	5.35	213.20	3.98	48.77	0.16	24.74
09/16/87	1000	5.54	205.00	7.42	49.62	0.16	24.74

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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
09/16/87	1015	6.74	195.60	3.57	50.86	0.16	24.74
09/16/87	1030	6.72	190.30	2.75	52.27	0.16	24.75
09/16/87	1045	6.25	183.20	5.56	53.41	0.16	24.75
09/16/87	1100	4.76	171.60	12.20	54.85	0.16	24.74
09/16/87	1115	4.93	192.50	8.29	56.49	0.16	24.74
09/16/87	1130	3.62	200.10	17.74	57.72	0.16	24.74
09/16/87	1145	3.61	146.20	13.83	59.32	0.16	24.74
09/16/87	1200	4.75	158.30	14.58	60.39	0.16	24.74
09/16/87	1215	4.45	174.50	10.67	61.95	0.16	24.73
09/16/87	1230	4.58	192.60	9.50	63.54	0.16	24.07
09/16/87	1245	4.47	199.60	10.32	64.20	0.16	23.50
09/16/87	1300	3.48	175.20	18.51	66.51	0.16	23.41
09/16/87	1315	2.91	176.70	52.25	68.17	0.16	23.02
09/16/87	1330	2.73	93.60	19.74	68.75	0.16	22.78
09/16/87	1345	3.69	71.60	15.77	70.70	0.16	22.62
09/16/87	1400	5.09	54.25	32.70	71.40	0.16	22.20
09/16/87	1415	7.56	57.54	9.97	71.50	0.16	21.71
09/16/87	1430	7.00	50.06	11.88	71.80	0.16	21.41
09/16/87	1445	7.22	54.32	17.00	72.30	0.16	21.29
09/16/87	1500	9.29	64.70	9.15	72.00	0.16	21.13
09/16/87	1515	10.70	55.12	8.33	72.80	0.16	20.91
09/16/87	1530	10.14	55.26	5.94	72.90	0.16	20.99
09/16/87	1545	12.51	43.67	9.08	72.80	0.16	21.21
09/16/87	1600	12.11	49.13	9.90	73.00	0.16	21.22
09/16/87	1615	13.74	38.97	6.35	72.30	0.16	21.30
09/16/87	1630	11.16	35.79	5.54	70.90	0.16	23.72
09/16/87	1645	6.84	43.13	14.15	71.50	0.16	21.62
09/16/87	1700	7.04	70.40	10.32	73.00	0.16	22.61
09/16/87	1715	6.54	55.07	13.47	72.60	0.16	23.68
09/16/87	1730	6.41	33.95	8.75	72.80	0.16	24.68
09/16/87	1745	7.45	32.48	9.50	72.50	0.16	24.68
09/16/87	1800	7.34	37.70	8.75	71.70	0.16	23.62
09/16/87	1815	6.42	65.90	11.49	71.10	0.16	21.61
09/16/87	1830	4.65	109.20	9.10	70.80	0.16	21.38
09/16/87	1845	3.05	105.40	7.94	70.40	0.16	22.11
09/16/87	1900	10.87	326.60	8.35	69.78	0.16	24.69
09/16/87	1915	21.86	316.10	3.69	65.92	0.16	24.72
09/16/87	1930	13.43	318.40	5.20	64.78	0.16	24.72
09/16/87	1945	7.70	355.00	8.76	65.10	0.16	24.72
09/16/87	2000	7.03	29.94	16.98	64.79	0.16	24.72
09/16/87	2015	9.10	316.60	7.19	65.12	0.16	24.73
09/16/87	2030	12.53	300.40	4.38	64.54	0.16	24.74
09/16/87	2045	11.42	303.70	4.38	63.65	0.16	23.60
09/16/87	2100	9.14	320.10	4.80	63.85	0.16	23.00
09/16/87	2115	7.33	11.60	7.95	64.81	0.16	22.71
09/16/87	2130	8.81	19.91	15.76	65.11	0.16	22.60

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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
09/16/87	2145	6.40	257.30	4.80	64.57	0.16	22.44
09/16/87	2200	4.90	290.00	7.54	64.76	0.16	22.44
09/16/87	2215	17.51	21.50	4.73	61.46	0.16	24.76
09/16/87	2230	17.16	43.16	3.15	58.34	0.16	24.79
09/16/87	2245	10.35	29.43	3.57	57.46	0.16	24.80
09/16/87	2300	9.81	21.51	3.15	57.18	0.16	24.80
09/16/87	2315	6.03	14.23	3.57	56.73	0.16	24.82
09/16/87	2330	5.72	22.17	3.57	56.49	0.16	24.83
09/16/87	2345	5.10	347.30	4.73	55.70	0.16	24.84
09/17/87	0	6.99	342.00	3.16	55.50	0.16	24.85
09/17/87	15	6.79	330.80	3.57	55.37	0.16	24.85
09/17/87	30	4.64	343.30	6.25	54.69	0.16	24.85
09/17/87	45	4.31	330.90	2.33	54.33	0.16	24.86
09/17/87	100	4.10	321.20	5.49	54.64	0.16	24.87
09/17/87	115	5.02	317.70	3.91	54.89	0.16	24.87
09/17/87	130	4.17	333.30	10.23	54.34	0.16	24.88
09/17/87	145	2.79	347.10	4.67	54.15	0.16	24.88
09/17/87	200	2.46	11.34	1.92	54.56	0.16	24.89
09/17/87	215	2.25	1.18	6.25	54.35	0.16	24.89
09/17/87	230	2.28	351.40	17.64	53.72	0.16	24.89
09/17/87	245	7.87	302.70	5.83	54.02	0.16	24.91
09/17/87	300	10.47	316.70	8.65	52.53	0.23	24.92
09/17/87	315	2.43	352.20	7.41	51.76	0.24	24.92
09/17/87	330	4.04	58.82	12.49	51.27	0.26	24.92
09/17/87	345	8.50	103.70	3.50	51.02	0.27	24.89
09/17/87	400	8.41	98.60	3.91	51.07	0.27	24.87
09/17/87	415	8.38	179.80	18.40	51.60	0.33	24.87
09/17/87	430	7.99	213.30	21.15	51.04	0.37	24.87
09/17/87	445	9.20	239.30	3.91	51.22	0.38	24.87
09/17/87	500	12.33	227.40	3.91	51.78	0.38	24.87
09/17/87	515	19.47	201.10	5.08	51.91	0.38	24.86
09/17/87	530	22.59	176.30	4.33	52.16	0.38	24.84
09/17/87	545	21.72	179.30	3.98	52.37	0.38	24.85
09/17/87	600	16.23	174.40	5.08	52.45	0.38	24.85
09/17/87	615	11.70	178.10	7.07	52.51	0.38	24.86
09/17/87	630	5.76	219.90	23.14	52.08	0.38	24.86
09/17/87	645	5.62	336.70	18.82	50.82	0.38	24.86
09/17/87	700	3.70	17.65	5.08	50.49	0.38	24.87
09/17/87	715	4.23	24.22	7.83	50.55	0.38	24.89
09/17/87	730	4.21	60.99	5.08	50.19	0.38	24.89
09/17/87	745	4.61	81.90	6.65	50.58	0.38	24.89
09/17/87	800	4.74	70.90	5.84	49.82	0.39	24.89
09/17/87	815	4.96	64.74	4.33	48.87	0.39	24.90
09/17/87	830	4.75	324.70	11.06	48.93	0.39	24.91
09/17/87	845	5.74	320.60	6.32	49.04	0.38	24.92
09/17/87	900	6.96	335.30	3.92	48.69	0.39	24.92

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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
09/17/87	915	5.53	345.60	8.24	48.76	0.38	24.92
09/17/87	930	5.31	0.67	11.06	48.83	0.39	24.92
09/17/87	945	6.83	13.92	4.33	48.76	0.38	24.92
09/17/87	1000	8.09	21.02	6.25	48.87	0.39	24.92
09/17/87	1015	5.91	3.57	8.65	48.62	0.39	24.94
09/17/87	1030	6.64	10.11	6.25	48.07	0.38	24.94
09/17/87	1045	8.27	31.92	4.67	47.95	0.38	24.94
09/17/87	1100	7.13	32.32	5.50	48.11	0.38	24.95
09/17/87	1115	9.23	47.94	5.08	48.31	0.38	24.95
09/17/87	1130	8.30	67.98	6.32	48.55	0.39	24.96
09/17/87	1145	8.28	73.60	3.98	48.59	0.38	24.96
09/17/87	1200	7.62	53.94	6.25	48.77	0.38	24.96
09/17/87	1215	9.21	54.53	9.47	48.84	0.38	24.96
09/17/87	1230	9.16	75.80	5.08	49.06	0.38	24.96
09/17/87	1245	8.97	78.30	6.66	49.25	0.38	24.96
09/17/87	1300	8.71	76.90	5.08	49.13	0.38	24.96
09/17/87	1315	7.73	50.83	5.84	49.36	0.38	24.96
09/17/87	1330	7.83	41.79	5.49	49.29	0.38	24.96
09/17/87	1345	8.31	48.32	7.48	49.55	0.38	24.96
09/17/87	1400	8.90	44.07	8.99	49.71	0.38	24.96
09/17/87	1415	7.92	38.16	9.89	49.56	0.38	24.96
09/17/87	1430	8.06	32.19	8.65	49.57	0.38	24.96
09/17/87	1445	7.96	27.33	7.07	49.45	0.38	24.96
09/17/87	1500	8.74	41.69	7.48	49.57	0.38	24.96
09/17/87	1515	8.19	42.47	4.33	49.63	0.38	24.96
09/17/87	1530	7.08	34.45	10.57	49.75	0.38	24.96
09/17/87	1545	6.32	30.02	8.24	49.66	0.38	24.96
09/17/87	1600	5.58	15.24	7.07	49.07	0.38	24.96
09/17/87	1615	6.84	22.14	5.49	48.87	0.38	24.96
09/17/87	1630	7.29	19.52	6.66	48.73	0.38	24.95
09/17/87	1645	5.52	13.64	8.58	48.63	0.38	24.95
09/17/87	1700	6.91	24.68	3.50	48.43	0.38	24.95
09/17/87	1715	6.33	20.96	5.84	48.27	0.38	24.95
09/17/87	1730	6.49	35.33	10.99	48.44	0.38	24.95
09/17/87	1745	6.00	46.11	5.49	48.54	0.38	24.95
09/17/87	1800	5.93	34.13	10.99	48.45	0.38	24.95
09/17/87	1815	6.20	33.11	5.84	48.50	0.38	24.95
09/17/87	1830	5.30	33.21	7.48	48.67	0.38	24.95
09/17/87	1845	5.51	8.25	11.74	47.93	0.38	24.95
09/17/87	1900	8.22	17.03	5.49	47.17	0.39	24.95
09/17/87	1915	5.98	2.84	5.49	46.99	0.39	24.96
09/17/87	1930	5.66	13.27	5.49	46.94	0.40	24.97
09/17/87	1945	6.40	26.72	6.66	47.24	0.39	24.97
09/17/87	2000	7.62	29.02	4.39	47.52	0.39	24.97
09/17/87	2015	10.14	34.48	5.50	47.19	0.40	24.98
09/17/87	2030	11.56	37.94	3.98	45.82	0.41	24.99

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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
09/17/87	2045	9.95	39.53	4.40	45.78	0.41	24.99
09/17/87	2100	9.65	38.53	4.74	45.88	0.41	24.99
09/17/87	2115	7.56	42.98	4.74	46.02	0.41	25.00
09/17/87	2130	4.70	32.26	7.08	46.20	0.41	25.00
09/17/87	2145	2.80	19.14	3.16	46.45	0.41	25.01
09/17/87	2200	2.04	9.20	12.98	46.64	0.41	25.01
09/17/87	2215	1.11	335.90	10.24	46.80	0.41	25.02
09/17/87	2230	1.60	23.20	3.16	46.89	0.41	25.02
09/17/87	2245	1.34	354.40	14.56	47.04	0.41	25.02
09/17/87	2300	1.26	325.40	6.32	47.05	0.41	25.02
09/17/87	2315	1.26	288.30	1.99	47.16	0.41	25.02
09/17/87	2330	2.28	273.20	2.40	47.38	0.41	25.04
09/17/87	2345	3.31	245.70	4.74	47.49	0.41	25.04
09/18/87	0	5.43	219.10	2.34	47.45	0.41	25.03
09/18/87	15	5.39	217.90	3.98	47.25	0.41	25.04
09/18/87	30	4.36	203.20	2.75	47.13	0.41	25.04
09/18/87	45	4.84	208.10	2.68	47.21	0.41	25.03
09/18/87	100	5.79	218.00	3.92	47.18	0.41	25.03
09/18/87	115	6.50	211.60	3.98	46.95	0.41	25.03
09/18/87	130	6.95	216.70	3.16	46.80	0.41	25.02
09/18/87	145	5.90	221.10	3.57	46.77	0.41	25.02
09/18/87	200	5.82	215.70	3.16	46.72	0.41	25.02
09/18/87	215	5.47	216.20	3.16	46.66	0.41	25.02
09/18/87	230	4.53	200.20	9.00	46.61	0.41	25.02
09/18/87	245	1.89	180.00	12.57	46.31	0.41	25.01
09/18/87	300	1.80	202.20	6.66	45.89	0.41	25.01
09/18/87	315	4.79	212.00	2.34	45.80	0.41	25.00
09/18/87	330	5.71	204.80	2.34	45.64	0.41	25.00
09/18/87	345	4.67	198.80	3.16	45.48	0.41	25.00
09/18/87	400	5.05	192.00	1.99	45.69	0.41	24.99
09/18/87	415	4.10	184.10	2.34	45.30	0.41	24.99
09/18/87	430	3.30	164.90	8.24	44.92	0.41	24.98
09/18/87	445	4.70	167.20	1.51	45.43	0.41	24.98
09/18/87	500	5.96	173.60	2.68	44.87	0.41	24.98
09/18/87	515	5.04	178.60	3.92	44.30	0.41	24.98
09/18/87	530	3.28	172.40	8.93	43.59	0.41	24.98
09/18/87	545	2.33	65.37	30.11	41.96	0.41	24.97
09/18/87	600	3.84	155.20	4.26	41.37	0.41	24.97
09/18/87	615	3.04	153.00	13.34	40.78	0.41	24.97
09/18/87	630	5.82	194.20	11.34	41.64	0.41	24.97
09/18/87	645	4.03	225.70	8.59	42.34	0.41	24.97
09/18/87	700	3.78	243.10	6.26	42.62	0.41	24.97
09/18/87	715	1.32	239.40	39.53	42.36	0.41	24.97
09/18/87	730	0.94	343.70	37.96	41.26	0.41	24.97
09/18/87	745	1.68	49.14	3.51	40.51	0.41	24.97
09/18/87	800	1.76	57.15	5.78	40.18	0.41	24.97



RMA METEOROLOGICAL DATA  
FROM STATION M1  
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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
09/18/87	815	1.79	74.10	3.51	41.01	0.41	24.97
09/18/87	830	0.97	93.60	1.51	41.31	0.41	24.96
09/18/87	845	1.12	236.30	3.51	41.12	0.41	24.96
09/18/87	900	2.57	248.90	4.68	39.62	0.41	24.96
09/18/87	915	2.44	264.10	7.43	39.32	0.41	24.96
09/18/87	930	3.15	281.00	12.93	39.77	0.41	24.95
09/18/87	945	1.79	292.10	11.69	40.14	0.41	24.95
09/18/87	1000	1.36	267.80	17.67	40.85	0.41	24.95
09/18/87	1015	1.82	251.70	18.84	41.37	0.41	24.95
09/18/87	1030	2.58	235.70	12.99	41.35	0.41	24.95
09/18/87	1045	2.75	206.80	9.83	41.79	0.41	24.95
09/18/87	1100	3.56	199.70	13.40	42.41	0.41	24.95
09/18/87	1115	4.72	203.20	10.24	42.77	0.41	24.95
09/18/87	1130	4.83	206.10	12.99	42.93	0.41	24.95
09/18/87	1145	4.27	235.70	7.90	44.58	0.41	24.93
09/18/87	1200	4.10	246.20	8.24	47.01	0.41	24.93
09/18/87	1215	4.13	237.10	12.55	49.11	0.41	24.91
09/18/87	1230	3.18	255.90	11.79	51.25	0.41	24.91
09/18/87	1245	3.70	245.30	45.55	53.06	0.41	24.91
09/18/87	1300	2.70	238.50	48.67	55.44	0.41	24.90
09/18/87	1315	2.99	235.60	14.23	57.20	0.41	24.89
09/18/87	1330	2.99	256.80	21.61	58.57	0.41	24.88
09/18/87	1345	2.14	268.70	42.04	59.87	0.41	24.87
09/18/87	1400	2.57	155.40	48.31	61.33	0.41	24.86
09/18/87	1415	2.57	0.35	35.39	62.49	0.41	24.85
09/18/87	1430	5.04	8.29	20.90	61.80	0.41	24.85
09/18/87	1445	5.90	39.03	19.33	62.59	0.41	24.85
09/18/87	1500	5.42	50.39	14.62	63.81	0.41	24.83
09/18/87	1515	7.10	30.05	11.07	63.40	0.41	24.83
09/18/87	1530	6.90	28.05	16.60	63.57	0.41	24.84
09/18/87	1545	6.69	35.35	15.37	64.53	0.41	24.82
09/18/87	1600	7.90	39.32	10.66	65.07	0.41	24.82
09/18/87	1615	9.32	32.56	13.46	65.53	0.41	24.82
09/18/87	1630	8.91	36.71	11.83	66.34	0.41	24.81
09/18/87	1645	9.92	42.18	13.06	67.53	0.41	24.80
09/18/87	1700	9.95	58.79	10.66	68.44	0.41	24.79
09/18/87	1715	12.85	52.70	9.09	68.09	0.41	24.79
09/18/87	1730	13.67	49.74	4.79	67.92	0.41	24.79
09/18/87	1745	15.88	45.92	6.77	67.82	0.41	24.79
09/18/87	1800	15.43	49.60	6.77	67.83	0.41	24.79
09/18/87	1815	14.49	49.76	8.34	67.86	0.41	24.79
09/18/87	1830	14.85	42.98	3.97	67.85	0.41	24.79
09/18/87	1845	13.72	41.28	6.36	67.89	0.41	24.79
09/18/87	1900	15.99	47.11	4.45	67.82	0.41	24.79
09/18/87	1915	13.45	46.72	4.45	67.95	0.41	24.79
09/18/87	1930	13.07	54.94	5.95	67.75	0.41	24.79

RMA METEOROLOGICAL DATA  
FROM STATION M1  
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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
09/18/87	1945	11.96	54.31	5.61	67.50	0.41	24.79
09/18/87	2000	8.88	60.31	5.61	67.27	0.41	24.79
09/18/87	2015	7.05	61.74	4.79	66.54	0.41	24.79
09/18/87	2030	6.10	43.73	3.29	64.86	0.41	24.80
09/18/87	2045	6.74	28.04	1.71	62.12	0.41	24.80
09/18/87	2100	6.74	24.22	2.47	60.31	0.41	24.82
09/18/87	2115	6.85	20.54	2.06	59.48	0.41	24.84
09/18/87	2130	5.99	22.15	3.98	58.47	0.41	24.84
09/18/87	2145	7.26	38.30	2.40	57.73	0.41	24.86
09/18/87	2200	6.14	44.26	1.58	57.35	0.41	24.86
09/18/87	2215	4.10	58.28	7.89	55.89	0.41	24.86
09/18/87	2230	1.86	24.68	3.57	54.88	0.41	24.87
09/18/87	2245	2.82	34.07	5.49	54.36	0.41	24.88
09/18/87	2300	5.06	59.21	9.40	54.00	0.41	24.90
09/18/87	2315	5.00	93.50	7.07	53.48	0.41	24.90
09/18/87	2330	4.21	80.80	5.84	53.79	0.41	24.91
09/18/87	2345	2.74	91.60	13.73	53.19	0.41	24.92
09/19/87	0	3.57	110.80	4.74	53.22	0.41	24.92
09/19/87	15	1.40	67.92	40.38	51.50	0.41	24.93
09/19/87	30	2.03	312.00	5.15	50.96	0.41	24.93
09/19/87	45	4.72	321.20	2.40	52.33	0.41	24.94
09/19/87	100	5.70	313.70	2.75	52.42	0.41	24.95
09/19/87	115	6.56	288.30	8.24	51.04	0.41	24.95
09/19/87	130	4.22	257.10	9.00	48.94	0.41	24.95
09/19/87	145	4.46	250.60	21.99	49.32	0.41	24.95
09/19/87	200	3.78	249.60	16.90	49.61	0.41	24.95
09/19/87	215	2.86	228.10	6.25	49.53	0.41	24.95
09/19/87	230	2.69	221.30	16.08	50.94	0.41	24.95
09/19/87	245	3.63	219.20	5.50	51.60	0.41	24.95
09/19/87	300	3.33	208.00	5.08	51.36	0.41	24.94
09/19/87	315	4.46	208.80	2.34	52.13	0.41	24.94
09/19/87	330	6.60	194.10	1.58	51.98	0.41	24.94
09/19/87	345	6.71	187.00	2.34	52.10	0.41	24.94
09/19/87	400	6.95	184.60	0.34	52.47	0.41	24.94
09/19/87	415	6.01	175.50	0.76	52.68	0.41	24.94
09/19/87	430	4.94	166.50	1.92	53.00	0.41	24.94
09/19/87	445	6.55	177.00	20.41	49.88	0.41	24.94
09/19/87	500	7.90	188.80	1.93	46.96	0.41	24.94
09/19/87	515	8.05	191.40	2.34	47.01	0.41	24.93
09/19/87	530	7.34	191.30	0.76	46.46	0.41	24.93
09/19/87	545	6.91	186.90	1.10	46.36	0.41	24.93
09/19/87	600	7.02	185.40	1.51	46.22	0.41	24.92
09/19/87	615	5.91	184.60	2.68	45.05	0.41	24.92
09/19/87	630	4.08	173.10	6.26	43.43	0.41	24.92
09/19/87	645	4.87	161.30	5.84	42.15	0.41	24.92
09/19/87	700	6.61	180.50	1.93	43.91	0.41	24.92

RMA METEOROLOGICAL DATA  
FROM STATION M1  
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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
09/19/87	715	6.96	185.40	1.93	43.52	0.41	24.92
09/19/87	730	6.93	189.80	0.76	43.20	0.41	24.92
09/19/87	745	5.71	188.40	6.60	42.64	0.41	24.92
09/19/87	800	5.62	191.60	1.51	42.46	0.41	24.92
09/19/87	815	6.02	179.90	1.51	42.33	0.41	24.92
09/19/87	830	5.94	179.90	0.76	41.90	0.41	24.92
09/19/87	845	6.96	188.70	1.10	42.50	0.41	24.92
09/19/87	900	5.86	192.40	4.26	42.00	0.41	24.92
09/19/87	915	4.49	208.70	3.44	41.25	0.41	24.92
09/19/87	930	4.33	218.30	3.51	41.41	0.41	24.92
09/19/87	945	2.97	215.90	6.67	42.07	0.41	24.92
09/19/87	1000	2.09	215.20	0.89	43.17	0.00	24.90
09/19/87	1015	0.67	167.50	0.82	17.99	0.00	23.59
09/19/87	1030	0.65	167.60	0.89	18.01	0.00	23.59
09/19/87	1045	0.65	167.60	0.89	18.01	0.00	23.59
09/19/87	1100	0.65	167.60	0.89	18.01	0.00	23.59
09/19/87	1115	0.64	167.60	0.89	18.01	0.00	23.59
09/19/87	1130	0.64	167.60	0.89	18.01	0.00	23.59
09/19/87	1145	0.64	167.60	0.89	18.01	0.00	23.59
09/19/87	1200	0.64	167.70	0.96	18.02	0.00	23.59
09/19/87	1215	0.64	167.60	0.89	18.02	0.00	23.59
09/19/87	1230	0.65	167.40	0.96	18.01	0.00	23.59
09/19/87	1245	0.66	167.30	0.89	18.00	0.00	23.59
09/19/87	1300	0.67	167.10	0.89	18.01	0.00	23.59
09/19/87	1315	0.66	167.00	0.89	18.01	0.00	23.59
09/19/87	1330	1.68	16.69	20.09	38.24	0.00	24.24
09/19/87	1345	4.03	10.86	26.71	59.83	0.00	24.91
09/19/87	1400	4.34	12.55	35.38	60.42	0.00	24.91
09/19/87	1415	4.43	19.17	29.85	61.78	0.00	24.91
09/19/87	1430	4.78	16.19	21.65	61.83	0.00	24.91
09/19/87	1445	4.57	32.60	26.71	62.20	0.00	24.91
09/19/87	1500	4.31	37.11	38.12	62.78	0.00	24.91
09/19/87	1515	6.78	41.52	10.32	63.99	0.00	24.91
09/19/87	1530	6.15	45.96	19.74	64.14	0.00	24.91
09/19/87	1545	6.39	34.49	23.58	64.25	0.00	24.89
09/19/87	1600	4.25	23.76	10.32	64.53	0.00	24.89
09/19/87	1615	5.75	13.68	9.50	65.97	0.00	24.89
09/19/87	1630	7.82	38.75	15.04	66.73	0.00	24.88
09/19/87	1645	5.64	17.56	7.59	66.71	0.00	24.88
09/19/87	1700	7.51	24.92	13.46	66.70	0.00	24.88
09/19/87	1715	7.93	29.94	13.87	67.26	0.00	24.88
09/19/87	1730	7.43	24.82	7.93	67.23	0.00	24.88
09/19/87	1745	7.91	33.18	10.32	67.32	0.00	24.88
09/19/87	1800	5.00	15.34	14.22	67.31	0.00	24.88
09/19/87	1815	4.26	84.10	17.77	68.01	0.00	24.88
09/19/87	1830	4.53	121.10	19.76	68.17	0.00	24.88

RMA METEOROLOGICAL DATA  
FROM STATION M1  
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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
09/19/87	1845	3.19	62.35	18.94	68.72	0.00	24.87
09/19/87	1900	3.35	38.09	15.04	68.68	0.00	24.88
09/19/87	1915	4.31	22.91	8.00	68.03	0.00	24.88
09/19/87	1930	3.10	22.32	14.23	67.16	0.00	24.98
09/19/87	1945	3.02	347.30	7.18	66.40	0.00	24.88
09/19/87	2000	3.27	54.90	6.84	67.15	0.00	24.88
09/19/87	2015	2.95	19.87	11.09	65.55	0.00	24.89
09/19/87	2030	3.85	332.70	1.64	65.44	0.00	24.89
09/19/87	2045	6.72	326.30	3.22	65.48	0.00	24.89
09/19/87	2100	3.23	78.60	5.21	64.82	0.00	24.89
09/19/87	2115	2.70	68.14	49.81	63.47	0.00	24.89
09/19/87	2130	4.13	303.50	19.26	63.19	0.00	24.91
09/19/87	2145	1.09	23.21	18.85	61.90	0.00	24.91
09/19/87	2200	2.69	53.42	4.32	60.64	0.00	24.91
09/19/87	2215	2.88	71.50	5.90	60.30	0.00	24.91
09/19/87	2230	2.41	48.42	3.91	60.63	0.00	24.91
09/19/87	2245	4.34	84.30	3.91	61.41	0.00	24.92
09/19/87	2300	4.81	100.40	5.83	62.35	0.00	24.93
09/19/87	2315	4.81	118.70	4.32	62.83	0.00	24.93
09/19/87	2330	5.72	123.20	3.91	63.07	0.00	24.94
09/19/87	2345	7.02	113.90	3.50	61.91	0.00	24.94
09/20/87	0	9.14	140.70	2.33	59.21	0.00	24.94
09/20/87	15	8.70	156.80	1.51	61.27	0.00	24.94
09/20/87	30	3.58	18.22	15.24	53.58	0.00	24.95
09/20/87	45	1.07	316.00	49.30	52.18	0.00	24.95
09/20/87	100	2.13	227.90	15.24	55.04	0.00	24.95
09/20/87	115	7.42	114.60	3.50	53.37	0.00	24.95
09/20/87	130	9.46	123.50	2.68	53.09	0.00	24.95
09/20/87	145	10.06	140.50	1.58	56.61	0.00	24.96
09/20/87	200	7.45	137.00	7.83	58.72	0.00	24.96
09/20/87	215	5.41	132.80	1.85	58.10	0.00	24.96
09/20/87	230	5.12	158.30	4.74	57.20	0.00	24.97
09/20/87	245	2.17	199.10	9.00	56.17	0.00	24.97
09/20/87	300	2.02	263.10	9.07	51.93	0.00	24.97
09/20/87	315	3.83	246.10	8.24	49.60	0.00	24.97
09/20/87	330	4.51	226.80	9.48	49.35	0.00	24.98
09/20/87	345	5.20	227.50	2.40	50.38	0.00	24.98
09/20/87	400	5.44	228.20	12.16	49.95	0.00	24.98
09/20/87	415	2.83	251.90	4.33	48.86	0.00	24.98
09/20/87	430	2.57	230.70	7.08	48.93	0.00	24.98
09/20/87	445	3.15	223.10	4.74	48.36	0.00	24.98
09/20/87	500	2.93	223.30	7.08	47.59	0.00	24.98
09/20/87	515	4.82	212.50	2.34	48.78	0.00	24.98
09/20/87	530	7.56	207.90	0.41	49.65	0.00	24.97
09/20/87	545	10.33	200.60	1.99	47.72	0.00	24.96
09/20/87	600	11.99	204.10	2.40	47.54	0.00	24.95

RMA METEOROLOGICAL DATA  
FROM STATION M1  
07/17 - 10/08, 1987

DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
09/20/87	615	7.88	205.50	56.83	46.95	0.00	24.95
09/20/87	630	5.46	184.50	7.90	46.50	0.00	24.95
09/20/87	645	6.37	207.80	21.58	47.45	0.00	24.95
09/20/87	700	5.12	193.40	1.99	47.23	0.00	24.95
09/20/87	715	7.61	200.90	4.33	47.59	0.00	24.95
09/20/87	730	7.25	196.70	1.58	46.76	0.00	24.95
09/20/87	745	7.72	199.50	1.99	46.70	0.00	24.95
09/20/87	800	10.16	207.00	1.99	47.60	0.00	24.95
09/20/87	815	7.13	208.90	2.75	47.58	0.00	24.95
09/20/87	830	4.52	139.80	41.16	46.77	0.00	24.95
09/20/87	845	4.53	167.00	12.16	47.20	0.00	24.95
09/20/87	900	3.78	83.70	11.41	46.55	0.00	24.96
09/20/87	915	5.63	125.70	4.74	47.91	0.00	24.97
09/20/87	930	7.01	150.60	5.08	48.35	0.00	24.97
09/20/87	945	5.74	167.10	5.08	47.96	0.00	24.97
09/20/87	1000	2.23	169.50	52.97	48.55	0.00	24.97
09/20/87	1015	2.23	169.10	5.91	49.77	0.00	24.97
09/20/87	1030	4.95	171.60	5.15	50.01	0.00	24.98
09/20/87	1045	5.05	194.50	6.66	51.49	0.00	24.97
09/20/87	1100	4.99	211.60	5.49	52.78	0.00	24.97
09/20/87	1115	4.45	211.50	8.30	54.42	0.00	24.97
09/20/87	1130	4.55	234.20	10.28	55.52	0.00	24.97
09/20/87	1145	3.77	257.60	9.04	55.39	0.00	24.97
09/20/87	1200	4.42	276.80	13.42	56.48	0.00	24.97
09/20/87	1215	3.44	256.70	8.28	58.21	0.00	24.97
09/20/87	1230	3.03	271.00	40.43	59.43	0.00	24.96
09/20/87	1245	3.86	307.30	25.50	60.48	0.00	24.97
09/20/87	1300	3.03	357.40	45.58	61.62	0.00	24.95
09/20/87	1315	3.58	50.50	9.09	63.02	0.00	24.93
09/20/87	1330	4.04	47.20	18.92	63.30	0.00	24.94
09/20/87	1345	4.12	49.20	25.14	63.56	0.00	24.93
09/20/87	1400	3.86	87.60	31.01	63.75	0.00	24.93
09/20/87	1415	4.14	75.00	43.22	64.35	0.00	24.93
09/20/87	1430	3.13	21.18	17.34	65.40	0.00	24.93
09/20/87	1445	4.41	13.42	21.64	65.44	0.00	24.93
09/20/87	1500	4.22	38.06	29.08	66.56	0.00	24.93
09/20/87	1515	4.92	39.36	15.36	66.67	0.00	24.93
09/20/87	1530	5.84	13.11	18.16	66.27	0.00	24.91
09/20/87	1545	4.61	8.66	15.84	66.94	0.00	24.91
09/20/87	1600	6.01	40.75	10.72	67.35	0.00	24.91
09/20/87	1615	4.32	34.03	23.49	68.36	0.00	24.91
09/20/87	1630	5.16	11.96	22.47	67.28	0.00	24.91
09/20/87	1645	5.84	38.83	13.11	67.46	0.00	24.91
09/20/87	1700	5.16	27.47	24.80	67.62	0.00	24.90
09/20/87	1715	4.62	40.31	22.07	68.02	0.00	24.90
09/20/87	1730	4.97	46.72	15.04	68.14	0.00	24.90

RMA METEOROLOGICAL DATA  
FROM STATION M1  
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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
09/20/87	1745	5.63	31.47	10.80	68.50	0.00	24.88
09/20/87	1800	6.58	33.66	11.08	68.51	0.00	24.88
09/20/87	1815	5.79	46.82	10.32	68.89	0.00	24.88
09/20/87	1830	5.67	36.88	10.80	68.78	0.00	24.88
09/20/87	1845	6.09	43.45	13.06	68.02	0.00	24.88
09/20/87	1900	3.70	40.67	21.34	67.06	0.00	24.92
09/20/87	1915	3.29	88.50	19.77	67.73	0.00	24.92
09/20/87	1930	3.08	21.30	17.03	68.51	0.00	24.91
09/20/87	1945	3.25	30.09	5.27	66.54	0.00	24.91
09/20/87	2000	2.02	20.71	2.05	65.31	0.00	24.91
09/20/87	2015	3.15	20.02	2.81	65.43	0.00	24.92
09/20/87	2030	3.85	31.77	2.05	65.60	0.00	24.92
09/20/87	2045	3.33	37.54	2.06	65.13	0.00	24.91
09/20/87	2100	3.50	42.45	4.79	64.30	0.00	24.93
09/20/87	2115	1.60	66.08	3.56	63.94	0.00	24.94
09/20/87	2130	0.81	41.39	6.31	62.86	0.00	24.95
09/20/87	2145	3.04	47.96	4.39	63.12	0.00	24.95
09/20/87	2200	3.52	52.71	12.14	62.63	0.00	24.96
09/20/87	2215	10.44	94.60	4.32	57.69	0.00	24.97
09/20/87	2230	9.90	96.60	2.33	57.48	0.00	24.98
09/20/87	2245	9.08	101.60	1.92	56.10	0.00	24.99
09/20/87	2300	9.61	108.50	1.99	55.40	0.00	24.99
09/20/87	2315	9.42	105.00	2.33	54.41	0.00	25.00
09/20/87	2330	7.56	103.40	2.75	53.32	0.00	25.01
09/20/87	2345	7.51	103.40	4.67	53.20	0.00	25.01
09/21/87	0	7.57	108.60	1.58	52.83	0.00	25.02
09/21/87	15	8.98	129.40	3.57	53.04	0.00	25.03
09/21/87	30	11.03	148.40	15.72	53.59	0.00	25.03
09/21/87	45	10.36	153.90	2.68	53.25	0.00	25.03
09/21/87	100	9.23	151.70	2.27	53.35	0.00	25.03
09/21/87	115	6.57	150.90	8.58	53.31	0.00	25.03
09/21/87	130	2.75	268.80	25.47	51.76	0.00	25.03
09/21/87	145	3.72	262.00	10.58	53.13	0.00	25.04
09/21/87	200	5.72	324.60	6.25	52.39	0.00	25.04
09/21/87	215	5.09	349.10	11.33	51.08	0.00	25.05
09/21/87	230	4.59	25.33	2.75	50.97	0.00	25.05
09/21/87	245	5.67	47.91	6.66	49.80	0.00	25.06
09/21/87	300	4.17	64.20	4.67	48.91	0.00	25.06
09/21/87	315	4.57	55.86	1.92	50.62	0.00	25.06
09/21/87	330	5.25	50.11	2.75	51.96	0.00	25.06
09/21/87	345	5.78	68.69	5.91	50.46	0.00	25.06
09/21/87	400	5.79	85.30	2.40	49.58	0.00	25.06
09/21/87	415	7.34	103.60	3.16	49.34	0.00	25.06
09/21/87	430	7.68	122.10	1.58	49.25	0.00	25.06
09/21/87	445	8.71	142.60	2.34	48.40	0.00	25.06
09/21/87	500	6.54	230.10	2.75	45.94	0.00	25.06

RMA METEOROLOGICAL DATA  
FROM STATION M1  
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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
09/21/87	515	6.31	274.50	3.92	46.77	0.00	25.06
09/21/87	530	5.37	269.00	5.09	47.65	0.00	25.07
09/21/87	545	4.56	297.50	2.34	49.07	0.00	25.06
09/21/87	600	3.68	303.00	1.58	49.19	0.00	25.06
09/21/87	615	3.13	281.00	10.59	49.12	0.00	25.07
09/21/87	630	2.72	205.40	12.17	47.26	0.00	25.06
09/21/87	645	3.00	227.00	6.67	46.98	0.00	25.07
09/21/87	700	3.99	234.50	3.92	46.93	0.00	25.07
09/21/87	715	2.42	250.90	6.26	46.84	0.00	25.07
09/21/87	730	1.79	256.60	9.42	47.24	0.00	25.06
09/21/87	745	2.16	222.70	4.33	46.67	0.00	25.06
09/21/87	800	4.05	200.50	1.17	46.55	0.00	25.07
09/21/87	815	5.89	191.70	1.51	45.67	0.00	25.07
09/21/87	830	5.71	206.60	2.34	45.57	0.00	25.07
09/21/87	845	6.13	204.60	1.51	45.17	0.00	25.07
09/21/87	900	5.15	208.40	2.34	44.10	0.00	25.07
09/21/87	915	4.96	212.50	1.93	43.88	0.00	25.07
09/21/87	930	4.84	218.10	2.75	44.22	0.00	25.07
09/21/87	945	4.21	216.00	2.75	44.49	0.00	25.09
09/21/87	1000	3.67	222.60	7.01	45.37	0.00	25.08
09/21/87	1015	2.85	267.90	10.57	46.75	0.00	25.08
09/21/87	1030	3.80	290.80	8.23	47.76	0.00	25.07
09/21/87	1045	3.38	284.20	20.78	48.84	0.00	25.07
09/21/87	1100	3.85	253.20	7.47	49.97	0.00	25.07
09/21/87	1115	4.53	255.70	8.70	51.13	0.00	25.07
09/21/87	1130	4.59	277.50	19.31	52.28	0.00	25.07
09/21/87	1145	5.46	296.40	16.98	52.87	0.00	25.09
09/21/87	1200	5.11	307.00	11.08	53.73	0.00	25.08
09/21/87	1215	4.44	290.50	9.51	54.64	0.00	25.08
09/21/87	1230	4.92	322.70	18.39	55.60	0.00	25.08
09/21/87	1245	4.23	340.00	14.22	56.69	0.00	25.08
09/21/87	1300	5.08	329.60	14.96	57.68	0.00	25.08
09/21/87	1315	5.08	336.30	27.46	58.29	0.00	25.08
09/21/87	1330	3.76	12.67	16.19	60.25	0.00	25.08
09/21/87	1345	3.88	10.94	22.40	60.58	0.00	25.08
09/21/87	1400	4.98	1.40	30.60	61.19	0.00	25.08
09/21/87	1415	4.45	38.31	27.86	62.21	0.00	25.07
09/21/87	1430	5.31	37.04	18.92	62.65	0.00	25.08
09/21/87	1445	4.52	35.04	16.60	63.52	0.00	25.08
09/21/87	1500	4.18	36.34	31.41	63.66	0.00	25.08
09/21/87	1515	4.76	42.38	28.68	64.67	0.00	25.07
09/21/87	1530	5.94	349.20	16.59	64.92	0.00	25.06
09/21/87	1545	6.68	25.31	13.79	64.45	0.00	25.06
09/21/87	1600	5.78	52.35	18.10	65.09	0.00	25.06
09/21/87	1615	5.25	26.42	27.11	65.67	0.00	25.06
09/21/87	1630	5.02	33.74	21.65	65.37	0.00	25.05

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FROM STATION M1  
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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
09/21/87	1645	3.27	309.90	28.35	66.00	0.00	25.04
09/21/87	1700	6.82	16.70	7.99	66.58	0.00	25.03
09/21/87	1715	5.60	355.10	36.21	66.17	0.00	25.03
09/21/87	1730	6.26	353.20	17.01	66.34	0.00	25.03
09/21/87	1745	7.70	6.39	14.28	66.89	0.00	25.02
09/21/87	1800	7.48	15.56	7.93	67.07	0.00	25.03
09/21/87	1815	7.07	3.04	14.63	67.01	0.00	25.03
09/21/87	1830	7.41	29.71	15.04	67.00	0.00	25.03
09/21/87	1845	10.28	48.54	4.79	66.86	0.00	25.03
09/21/87	1900	9.27	45.59	6.02	66.82	0.00	25.03
09/21/87	1915	8.44	41.97	15.05	66.76	0.00	25.03
09/21/87	1930	9.83	43.38	5.27	66.50	0.00	25.03
09/21/87	1945	7.34	51.44	10.33	66.52	0.00	25.03
09/21/87	2000	6.54	49.88	8.76	66.26	0.00	25.03
09/21/87	2015	4.90	63.73	4.04	65.64	0.00	25.04
09/21/87	2030	3.96	72.50	5.20	64.64	0.00	25.04
09/21/87	2045	3.29	75.90	4.04	64.03	0.00	25.05
09/21/87	2100	2.68	67.24	3.22	63.21	0.00	25.05
09/21/87	2115	1.85	91.70	2.81	62.52	0.00	25.05
09/21/87	2130	3.18	90.80	4.73	62.54	0.00	25.05
09/21/87	2145	4.53	103.40	1.99	62.65	0.00	25.06
09/21/87	2200	5.24	118.50	3.15	62.42	0.00	25.06
09/21/87	2215	6.06	126.70	1.58	62.38	0.00	25.07
09/21/87	2230	6.07	131.70	1.17	62.68	0.00	25.07
09/21/87	2245	6.84	131.50	1.51	62.27	0.00	25.08
09/21/87	2300	7.34	129.00	0.76	61.83	0.00	25.08
09/21/87	2315	8.61	138.40	0.76	61.01	0.00	25.10
09/21/87	2330	11.35	142.90	1.51	59.77	0.00	25.10
09/21/87	2345	12.60	151.30	1.51	58.90	0.00	25.10
09/22/87	0	10.02	156.30	25.47	57.53	0.00	25.10
09/22/87	15	7.47	208.70	2.75	52.00	0.00	25.12
09/22/87	30	7.86	204.00	2.68	56.56	0.00	25.12
09/22/87	45	7.21	198.30	2.33	54.13	0.00	25.12
09/22/87	100	7.25	192.00	1.51	53.06	0.00	25.12
09/22/87	115	8.29	193.30	1.58	53.13	0.00	25.12
09/22/87	130	8.68	183.60	1.58	52.82	0.00	25.12
09/22/87	145	8.54	178.20	1.58	51.86	0.00	25.12
09/22/87	200	8.82	186.60	1.17	51.47	0.00	25.12
09/22/87	215	7.65	202.40	56.47	50.08	0.00	25.12
09/22/87	230	4.95	257.40	3.85	49.21	0.00	25.13
09/22/87	245	5.91	214.00	2.34	48.96	0.00	25.13
09/22/87	300	7.92	197.20	1.58	48.58	0.00	25.13
09/22/87	315	8.48	194.90	1.58	48.22	0.00	25.13
09/22/87	330	7.72	199.10	1.58	46.85	0.00	25.13
09/22/87	345	6.91	208.20	1.51	46.20	0.00	25.13
09/22/87	400	7.88	208.40	1.92	46.25	0.00	25.13



RMA METEOROLOGICAL DATA  
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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
09/22/87	415	6.81	210.10	1.51	46.12	0.00	25.13
09/22/87	430	6.99	199.60	1.51	45.04	0.00	25.13
09/22/87	445	7.13	197.50	1.51	44.48	0.00	25.13
09/22/87	500	7.54	197.30	1.10	44.58	0.00	25.13
09/22/87	515	8.11	194.70	1.93	44.32	0.00	25.13
09/22/87	530	8.02	202.90	1.10	44.53	0.00	25.13
09/22/87	545	8.26	206.20	1.17	44.26	0.00	25.12
09/22/87	600	8.02	203.20	1.93	43.96	0.00	25.12
09/22/87	615	7.88	201.90	1.17	43.81	0.00	25.12
09/22/87	630	7.32	204.20	1.58	43.48	0.00	25.12
09/22/87	645	6.62	202.40	2.75	42.63	0.00	25.12
09/22/87	700	5.30	199.90	3.09	42.53	0.00	25.12
09/22/87	715	4.88	206.30	3.16	42.71	0.00	25.12
09/22/87	730	6.24	198.50	1.93	43.49	0.00	25.12
09/22/87	745	6.99	197.10	1.93	43.60	0.00	25.12
09/22/87	800	7.02	194.80	2.68	43.75	0.00	25.12
09/22/87	815	7.15	194.30	1.93	43.88	0.00	25.12
09/22/87	830	7.98	192.30	1.51	43.35	0.00	25.12
09/22/87	845	8.01	190.10	2.34	42.92	0.00	25.12
09/22/87	900	8.47	194.50	1.17	43.61	0.00	25.12
09/22/87	915	7.72	193.90	1.10	42.98	0.00	25.12
09/22/87	930	7.70	189.60	1.58	43.20	0.00	25.12
09/22/87	945	7.40	190.60	2.34	43.81	0.00	25.12
09/22/87	1000	6.67	193.40	2.68	45.00	0.00	25.12
09/22/87	1015	6.61	199.20	3.57	46.56	0.00	25.12
09/22/87	1030	6.83	201.60	6.25	47.72	0.00	25.12
09/22/87	1045	7.36	199.40	3.98	48.99	0.00	25.12
09/22/87	1100	6.72	207.10	6.72	50.81	0.00	25.11
09/22/87	1115	5.33	213.90	11.79	52.42	0.00	25.11
09/22/87	1130	4.60	213.90	12.20	54.04	0.00	25.11
09/22/87	1145	3.28	211.30	18.15	56.26	0.00	25.11
09/22/87	1200	2.71	227.80	25.12	58.09	0.00	25.10
09/22/87	1215	2.26	272.10	43.98	59.79	0.00	25.10
09/22/87	1230	2.35	180.20	57.36	61.15	0.00	25.10
09/22/87	1245	2.77	172.50	22.01	61.86	0.00	25.10
09/22/87	1300	2.61	202.50	35.72	63.45	0.00	25.09
09/22/87	1315	3.85	200.30	16.93	63.88	0.00	25.09
09/22/87	1330	4.64	180.80	12.63	64.33	0.00	25.08
09/22/87	1345	3.96	195.80	11.06	65.44	0.00	25.08
09/22/87	1400	2.70	198.80	39.38	67.00	0.00	25.08
09/22/87	1415	3.00	135.90	24.77	68.07	0.00	25.08
09/22/87	1430	3.50	143.60	19.78	68.76	0.00	25.08
09/22/87	1445	2.90	199.60	52.31	69.88	0.00	25.07
09/22/87	1500	3.61	98.60	19.78	70.20	0.00	25.07
09/22/87	1515	3.99	51.66	11.53	70.80	0.00	25.07
09/22/87	1530	2.81	43.99	60.55	71.30	0.00	25.07

RMA METEOROLOGICAL DATA  
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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
09/22/87	1545	3.07	85.30	71.10	71.90	0.00	25.06
09/22/87	1600	3.87	45.94	36.62	72.30	0.00	25.05
09/22/87	1615	3.15	41.75	36.62	73.00	0.00	25.05
09/22/87	1630	4.98	4.96	9.55	72.30	0.00	25.05
09/22/87	1645	6.08	33.85	18.55	72.70	0.00	25.04
09/22/87	1700	6.41	31.77	9.96	72.10	0.00	25.04
09/22/87	1715	4.11	11.24	18.97	72.40	0.00	25.04
09/22/87	1730	5.43	5.32	15.02	72.40	0.00	25.04
09/22/87	1745	5.60	24.40	21.30	72.90	0.00	25.03
09/22/87	1800	4.56	14.25	12.63	72.80	0.00	25.03
09/22/87	1815	4.87	353.50	29.50	73.20	0.00	25.02
09/22/87	1830	4.78	30.07	11.13	73.40	0.00	25.03
09/22/87	1845	3.32	356.30	16.60	73.60	0.00	25.03
09/22/87	1900	3.37	20.35	11.13	73.40	0.00	25.03
09/22/87	1915	2.82	13.17	10.38	73.60	0.00	25.03
09/22/87	1930	2.89	339.10	18.59	73.60	0.00	25.03
09/22/87	1945	2.86	329.90	22.14	73.30	0.00	25.03
09/22/87	2000	2.48	343.40	9.16	72.90	0.00	25.03
09/22/87	2015	1.93	343.60	3.69	72.50	0.00	25.03
09/22/87	2030	1.44	352.50	1.30	71.30	0.00	25.02
09/22/87	2045	1.22	4.25	0.96	70.50	0.00	25.02
09/22/87	2100	1.10	17.94	3.69	68.54	0.00	25.03
09/22/87	2115	2.14	49.07	3.63	67.47	0.00	25.02
09/22/87	2130	1.79	56.46	7.19	66.80	0.00	25.03
09/22/87	2145	1.32	80.70	4.79	67.36	0.00	25.02
09/22/87	2200	0.99	74.30	5.89	66.05	0.00	25.02
09/22/87	2215	0.68	97.80	0.41	64.94	0.00	25.02
09/22/87	2230	2.09	134.40	3.98	65.61	0.00	25.03
09/22/87	2245	3.69	123.50	1.99	65.75	0.00	25.04
09/22/87	2300	5.95	118.10	1.17	66.00	0.00	25.04
09/22/87	2315	7.82	115.50	1.58	65.36	0.00	25.04
09/22/87	2330	9.05	119.90	2.75	64.50	0.00	25.05
09/22/87	2345	6.93	215.70	3.09	57.09	0.00	25.05
09/23/87	0	7.31	205.50	3.91	59.98	0.00	25.05
09/23/87	15	7.85	210.00	1.92	60.71	0.00	25.05
09/23/87	30	8.24	205.90	1.51	58.84	0.00	25.05
09/23/87	45	7.91	197.70	3.16	55.60	0.00	25.05
09/23/87	100	8.12	194.50	1.58	55.40	0.00	25.05
09/23/87	115	8.31	195.50	2.68	55.49	0.00	25.05
09/23/87	130	8.28	201.70	1.51	54.64	0.00	25.05
09/23/87	145	8.65	196.00	1.51	53.49	0.00	25.05
09/23/87	200	8.85	198.00	1.51	52.46	0.00	25.05
09/23/87	215	9.06	198.20	1.51	51.42	0.00	25.05
09/23/87	230	8.39	196.20	2.40	50.71	0.00	25.05
09/23/87	245	8.50	195.00	1.51	50.22	0.00	25.05
09/23/87	300	8.89	195.00	1.99	49.98	0.00	25.05

RMA METEOROLOGICAL DATA  
FROM STATION M1  
07/17 - 10/08, 1987

DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
09/23/87	315	8.64	193.60	2.34	49.91	0.00	25.05
09/23/87	330	8.84	199.90	1.92	49.43	0.00	25.05
09/23/87	345	8.98	198.30	1.10	49.11	0.00	25.04
09/23/87	400	8.60	195.20	1.99	48.91	0.00	25.04
09/23/87	415	9.42	194.60	0.76	49.33	0.00	25.04
09/23/87	430	9.37	195.00	1.58	49.46	0.00	25.04
09/23/87	445	8.62	191.50	1.17	48.82	0.00	25.04
09/23/87	500	7.66	192.70	0.76	48.59	0.00	25.04
09/23/87	515	6.81	201.30	1.92	48.78	0.00	25.04
09/23/87	530	5.42	207.10	3.09	48.47	0.00	25.03
09/23/87	545	6.90	207.00	1.92	48.12	0.00	25.03
09/23/87	600	9.92	201.90	1.58	47.82	0.00	25.03
09/23/87	615	10.98	199.70	1.58	47.62	0.00	25.02
09/23/87	630	9.61	199.90	1.17	46.84	0.00	25.02
09/23/87	645	8.38	198.80	1.17	46.74	0.00	25.02
09/23/87	700	8.17	201.50	1.92	46.83	0.00	25.03
09/23/87	715	9.63	198.80	1.17	46.70	0.00	25.03
09/23/87	730	8.92	204.60	1.51	46.80	0.00	25.03
09/23/87	745	7.36	210.60	1.17	45.99	0.00	25.03
09/23/87	800	7.89	208.30	1.58	45.92	0.00	25.03
09/23/87	815	8.60	199.50	1.99	46.25	0.00	25.03
09/23/87	830	8.31	205.10	3.16	47.07	0.00	25.03
09/23/87	845	8.00	210.80	1.17	47.22	0.00	25.03
09/23/87	900	8.01	204.80	1.58	47.48	0.00	25.02
09/23/87	915	8.07	203.80	1.58	47.26	0.00	25.02
09/23/87	930	6.97	206.10	2.40	48.02	0.00	25.02
09/23/87	945	7.08	204.50	1.99	49.30	0.00	25.02
09/23/87	1000	7.35	202.40	3.50	50.92	0.00	25.02
09/23/87	1015	6.72	206.40	3.98	53.01	0.00	25.02
09/23/87	1030	7.27	210.10	4.32	55.39	0.00	25.02
09/23/87	1045	8.34	205.70	3.56	56.93	0.00	25.02
09/23/87	1100	8.11	207.20	3.98	58.40	0.00	25.02
09/23/87	1115	7.35	215.90	4.04	60.26	0.00	25.02
09/23/87	1130	6.41	223.20	6.78	62.39	0.00	25.02
09/23/87	1145	5.42	222.60	8.01	64.26	0.00	25.01
09/23/87	1200	4.71	236.30	6.77	65.86	0.00	25.01
09/23/87	1215	4.03	237.00	19.28	67.59	0.00	25.01
09/23/87	1230	3.65	249.70	13.46	68.99	0.00	25.01
09/23/87	1245	3.90	261.50	15.37	70.00	0.00	25.00
09/23/87	1300	3.30	167.90	40.89	71.30	0.00	25.00
09/23/87	1315	3.72	16.19	12.21	72.20	0.00	25.01
09/23/87	1330	4.78	21.36	13.85	72.40	0.00	25.00
09/23/87	1345	4.12	20.68	15.42	72.80	0.00	25.01
09/23/87	1400	3.66	1.99	13.09	74.50	0.00	25.00
09/23/87	1415	3.99	55.61	8.39	74.80	0.00	24.98
09/23/87	1430	4.10	74.00	48.00	75.90	0.00	24.98

RMA METEOROLOGICAL DATA  
FROM STATION M1  
07/17 - 10/08, 1987

DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
09/23/87	1445	4.98	43.39	16.63	76.30	0.00	24.97
09/23/87	1500	5.75	62.77	12.27	76.90	0.00	24.96
09/23/87	1515	8.15	56.86	7.64	76.90	0.00	24.96
09/23/87	1530	7.08	52.65	10.36	77.10	0.00	24.96
09/23/87	1545	4.57	38.41	35.06	77.70	0.00	24.96
09/23/87	1600	3.52	55.92	25.98	78.90	0.00	24.95
09/23/87	1615	4.97	35.26	11.11	78.80	0.00	24.94
09/23/87	1630	5.38	349.10	17.39	78.20	0.00	24.94
09/23/87	1645	3.78	10.53	14.66	79.70	0.00	24.94
09/23/87	1700	2.89	9.45	43.63	80.00	0.00	24.94
09/23/87	1715	5.21	51.09	25.23	80.70	0.00	24.93
09/23/87	1730	5.64	54.63	8.05	80.70	0.00	24.92
09/23/87	1745	7.31	42.16	9.55	79.90	0.00	24.92
09/23/87	1800	5.79	29.45	16.99	80.20	0.00	24.92
09/23/87	1815	5.19	57.78	13.85	80.40	0.00	24.92
09/23/87	1830	5.42	42.59	13.10	80.40	0.00	24.92
09/23/87	1845	5.05	43.70	14.68	80.80	0.00	24.91
09/23/87	1900	4.97	43.60	20.14	80.70	0.00	24.90
09/23/87	1915	4.83	43.33	15.43	80.50	0.00	24.90
09/23/87	1930	5.18	32.84	5.60	80.10	0.00	24.90
09/23/87	1945	3.67	22.78	8.33	79.90	0.00	24.91
09/23/87	2000	2.92	17.89	4.10	79.50	0.00	24.90
09/23/87	2015	1.86	20.66	15.10	78.90	0.00	24.91
09/23/87	2030	0.91	12.42	2.53	78.20	0.00	24.91
09/23/87	2045	0.71	19.30	8.00	76.90	0.00	24.91
09/23/87	2100	0.14	32.58	1.64	73.90	0.00	24.90
09/23/87	2115	0.01	34.45	0.48	71.40	0.00	24.91
09/23/87	2130	1.19	258.50	1.71	71.20	0.00	24.91
09/23/87	2145	1.99	227.40	4.79	72.50	0.00	24.92
09/23/87	2200	2.01	156.90	18.14	72.30	0.00	24.92
09/23/87	2215	2.62	164.60	2.06	71.70	0.00	24.92
09/23/87	2230	4.11	165.80	9.46	72.90	0.00	24.90
09/23/87	2245	6.35	162.60	5.55	73.00	0.00	24.87
09/23/87	2300	9.51	155.20	3.56	71.50	0.00	24.93
09/23/87	2315	8.38	172.20	3.56	72.80	0.00	24.93
09/23/87	2330	8.36	177.10	28.25	69.20	0.00	24.94
09/23/87	2345	7.90	189.20	3.91	61.76	0.00	24.94
09/24/87	0	8.51	195.90	2.74	64.05	0.00	24.94
09/24/87	15	9.46	199.50	1.58	63.50	0.00	24.94
09/24/87	30	8.92	187.50	1.58	61.73	0.00	24.94
09/24/87	45	9.71	182.60	1.17	61.55	0.00	24.94
09/24/87	100	10.03	185.70	1.58	61.34	0.00	24.94
09/24/87	115	9.51	185.70	1.58	60.20	0.00	24.94
09/24/87	130	8.66	192.60	0.76	59.34	0.00	24.94
09/24/87	145	8.66	197.70	1.58	58.19	0.00	24.94
09/24/87	200	8.63	195.90	1.17	57.19	0.00	24.94

10/15/87

RMA METEOROLOGICAL DATA  
FROM STATION M1  
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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
09/24/87	215	8.03	197.30	0.76	56.15	0.00	24.94
09/24/87	230	7.84	192.90	1.51	55.69	0.00	24.94
09/24/87	245	8.87	192.30	1.51	56.04	0.00	24.94
09/24/87	300	8.95	191.30	1.51	55.86	0.00	24.94
09/24/87	315	9.31	188.70	1.10	56.06	0.00	24.94
09/24/87	330	10.24	189.10	1.51	56.85	0.00	24.94
09/24/87	345	9.92	187.40	0.82	56.02	0.00	24.94
09/24/87	400	9.41	188.80	1.99	54.83	0.00	24.93
09/24/87	415	8.58	195.20	1.58	53.91	0.00	24.93
09/24/87	430	8.44	196.20	1.51	53.50	0.00	24.94
09/24/87	445	8.31	196.60	1.58	53.16	0.00	24.94
09/24/87	500	7.37	200.40	2.68	52.63	0.00	24.94
09/24/87	515	7.95	204.10	1.99	52.21	0.00	24.94
09/24/87	530	7.98	200.00	1.99	51.85	0.00	24.94
09/24/87	545	7.69	198.20	1.58	51.64	0.00	24.94
09/24/87	600	7.67	199.00	1.17	52.40	0.00	24.94
09/24/87	615	7.38	200.10	1.99	51.87	0.00	24.94
09/24/87	630	6.57	206.70	2.68	51.18	0.00	24.94
09/24/87	645	7.31	203.40	1.58	50.60	0.00	24.93
09/24/87	700	8.06	200.40	1.58	50.77	0.00	24.93
09/24/87	715	7.47	202.60	1.58	50.88	0.00	24.93
09/24/87	730	7.51	201.20	1.58	50.56	0.00	24.93
09/24/87	745	7.93	204.00	1.58	50.21	0.00	24.93
09/24/87	800	7.80	204.80	0.34	49.94	0.00	24.93
09/24/87	815	7.53	199.90	1.58	49.52	0.00	24.93
09/24/87	830	8.25	191.80	1.58	49.77	0.00	24.93
09/24/87	845	9.35	185.80	1.99	50.04	0.00	24.93
09/24/87	900	9.76	182.60	0.82	50.87	0.00	24.93
09/24/87	915	9.35	189.80	1.58	50.98	0.00	24.93
09/24/87	930	8.17	196.90	2.75	51.41	0.00	24.93
09/24/87	945	8.36	192.20	3.16	52.74	0.00	24.93
09/24/87	1000	8.77	195.20	3.16	53.61	0.00	24.92
09/24/87	1015	8.10	192.70	4.73	54.81	0.00	24.92
09/24/87	1030	7.40	198.00	3.57	56.56	0.00	24.92
09/24/87	1045	7.96	202.90	4.39	58.25	0.00	24.92
09/24/87	1100	6.90	199.60	7.54	60.36	0.00	24.92
09/24/87	1115	7.19	204.60	5.21	62.25	0.00	24.91
09/24/87	1130	7.32	208.40	5.96	63.72	0.00	24.90
09/24/87	1145	5.45	196.40	5.61	66.13	0.00	24.89
09/24/87	1200	4.13	194.10	13.47	67.95	0.00	24.78
09/24/87	1215	3.95	189.40	15.38	69.23	0.00	24.89
09/24/87	1230	2.74	204.20	13.46	71.10	0.00	24.90
09/24/87	1245	2.47	137.20	14.20	72.70	0.00	24.90
09/24/87	1300	2.81	77.10	27.90	73.70	0.00	24.90
09/24/87	1315	2.95	72.30	12.69	74.30	0.00	24.91
09/24/87	1330	2.47	75.10	21.68	75.90	0.00	24.90

RMA METEOROLOGICAL DATA  
FROM STATION M1  
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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
09/24/87	1345	2.88	79.50	34.63	76.40	0.00	24.90
09/24/87	1400	2.04	145.80	17.79	77.70	0.00	24.90
09/24/87	1415	3.02	59.68	13.56	78.30	0.00	24.90
09/24/87	1430	2.32	76.20	63.75	79.10	0.00	24.89
09/24/87	1445	2.86	58.23	23.29	80.00	0.00	24.89
09/24/87	1500	4.57	44.09	9.19	79.40	0.00	24.88
09/24/87	1515	3.52	34.59	21.72	79.90	0.00	24.88
09/24/87	1530	5.10	47.49	23.29	80.40	0.00	24.88
09/24/87	1545	5.33	62.97	26.83	80.60	0.00	24.87
09/24/87	1600	5.03	49.35	20.23	81.10	0.00	24.87
09/24/87	1615	6.59	46.51	4.50	81.20	0.00	24.86
09/24/87	1630	7.09	48.14	12.67	81.00	0.00	24.86
09/24/87	1645	7.50	59.35	29.58	80.90	0.00	24.86
09/24/87	1700	7.07	65.63	11.18	81.70	0.00	24.86
09/24/87	1715	8.32	44.32	13.09	81.50	0.00	24.85
09/24/87	1730	7.00	63.14	12.69	81.90	0.00	24.85
09/24/87	1745	7.03	85.70	15.08	81.80	0.00	24.84
09/24/87	1800	6.93	64.43	7.23	81.90	0.00	24.84
09/24/87	1815	8.37	68.84	9.14	81.80	0.00	24.84
09/24/87	1830	6.92	78.10	8.39	81.70	0.00	24.85
09/24/87	1845	6.27	67.89	12.29	81.90	0.00	24.84
09/24/87	1900	9.24	58.61	5.19	81.40	0.00	24.84
09/24/87	1915	7.20	89.30	4.03	81.10	0.00	24.83
09/24/87	1930	6.79	65.69	7.17	80.90	0.00	24.83
09/24/87	1945	6.46	72.40	5.60	80.00	0.00	24.83
09/24/87	2000	4.82	75.50	5.95	79.50	0.00	24.83
09/24/87	2015	5.98	88.90	5.60	77.60	0.00	24.84
09/24/87	2030	7.00	102.40	1.64	76.00	0.00	24.84
09/24/87	2045	7.12	97.30	1.71	73.40	0.00	24.85
09/24/87	2100	7.99	99.20	1.30	72.40	0.00	24.85
09/24/87	2115	10.15	109.00	1.30	72.20	0.00	24.86
09/24/87	2130	11.42	110.80	1.30	71.40	0.00	24.86
09/24/87	2145	10.37	116.80	1.64	70.60	0.00	24.86
09/24/87	2200	9.19	114.80	2.47	68.70	0.00	24.86
09/24/87	2215	10.26	113.80	0.82	68.31	0.00	24.86
09/24/87	2230	10.65	117.80	2.81	67.85	0.00	24.86
09/24/87	2245	11.96	124.60	7.13	67.14	0.00	24.86
09/24/87	2300	12.55	129.10	3.56	66.41	0.00	24.87
09/24/87	2315	12.79	142.30	3.15	64.64	0.00	24.88
09/24/87	2330	10.23	157.90	16.94	60.96	0.00	24.88
09/24/87	2345	8.51	195.20	20.85	58.65	0.00	24.89
09/25/87	0	8.39	192.70	5.90	64.62	0.00	24.89
09/25/87	15	8.24	193.50	2.74	65.91	0.00	24.90
09/25/87	30	7.40	192.50	5.90	64.93	0.00	24.90
09/25/87	45	7.74	193.70	3.91	64.90	0.00	24.90
09/25/87	100	7.32	202.60	5.49	63.04	0.00	24.90

RMA METEOROLOGICAL DATA  
FROM STATION M1  
07/17 - 10/08, 1987

DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
09/25/87	115	5.77	208.80	7.48	61.63	0.00	24.89
09/25/87	130	7.49	207.20	5.08	59.65	0.00	24.89
09/25/87	145	7.90	188.90	1.92	58.06	0.00	24.89
09/25/87	200	6.69	190.30	3.50	58.26	0.00	24.89
09/25/87	215	7.24	184.80	1.58	57.70	0.00	24.89
09/25/87	230	7.21	181.50	1.17	57.50	0.00	24.89
09/25/87	245	7.39	195.80	1.99	57.68	0.00	24.89
09/25/87	300	7.88	195.70	1.10	56.66	0.00	24.89
09/25/87	315	8.51	195.80	2.75	56.53	0.00	24.89
09/25/87	330	8.42	188.70	5.42	55.85	0.00	24.89
09/25/87	345	9.50	181.20	1.92	55.66	0.00	24.89
09/25/87	400	9.96	178.80	1.99	56.88	0.00	24.89
09/25/87	415	9.56	170.20	0.82	56.45	0.00	24.89
09/25/87	430	10.35	171.20	1.51	56.80	0.00	24.89
09/25/87	445	9.94	173.30	2.40	57.31	0.00	24.89
09/25/87	500	9.59	182.70	0.76	55.91	0.00	24.89
09/25/87	515	8.15	191.80	3.57	54.69	0.00	24.89
09/25/87	530	8.74	188.10	1.99	54.49	0.00	24.89
09/25/87	545	6.29	192.50	1.99	52.89	0.00	24.89
09/25/87	600	7.86	193.20	1.17	53.04	0.00	24.88
09/25/87	615	8.04	197.90	3.16	52.19	0.00	24.88
09/25/87	630	4.79	207.50	4.33	50.60	0.00	24.88
09/25/87	645	7.11	206.30	1.58	51.42	0.00	24.88
09/25/87	700	6.53	210.10	2.34	50.96	0.00	24.88
09/25/87	715	7.30	215.80	2.34	51.57	0.00	24.88
09/25/87	730	8.31	198.80	1.17	51.54	0.00	24.88
09/25/87	745	9.34	196.10	1.92	51.15	0.00	24.88
09/25/87	800	8.26	198.60	3.50	51.15	0.00	24.87
09/25/87	815	7.91	209.60	1.99	50.86	0.00	24.87
09/25/87	830	6.78	212.50	2.34	51.03	0.00	24.87
09/25/87	845	7.01	202.80	1.58	51.22	0.00	24.87
09/25/87	900	8.83	198.10	1.17	52.27	0.00	24.87
09/25/87	915	8.85	189.70	0.82	52.67	0.00	24.87
09/25/87	930	9.80	183.60	1.65	54.25	0.00	24.87
09/25/87	945	9.64	185.90	1.65	55.16	0.00	24.86
09/25/87	1000	9.82	186.90	1.99	55.72	0.00	24.86
09/25/87	1015	9.53	191.60	2.40	57.38	0.00	24.86
09/25/87	1030	8.41	197.80	2.74	58.34	0.00	24.85
09/25/87	1045	8.49	196.90	2.81	59.60	0.00	24.85
09/25/87	1100	8.16	194.80	4.80	62.13	0.00	24.84
09/25/87	1115	11.73	197.20	4.79	64.14	0.00	24.63
09/25/87	1130	11.83	198.10	4.79	66.04	0.00	24.67
09/25/87	1145	13.65	199.20	4.45	67.45	0.00	23.89
09/25/87	1200	12.89	198.30	2.46	68.03	0.00	24.27
09/25/87	1215	11.51	204.50	3.69	69.32	0.00	24.80
09/25/87	1230	8.28	206.50	6.36	71.10	0.00	24.65

RMA METEOROLOGICAL DATA  
FROM STATION M1  
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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
09/25/87	1245	7.65	212.40	9.09	71.90	0.00	24.77
09/25/87	1300	7.65	195.40	6.76	73.20	0.00	24.69
09/25/87	1315	6.87	198.40	8.33	75.00	0.00	24.75
09/25/87	1330	7.60	190.80	13.52	76.70	0.00	24.83
09/25/87	1345	8.95	177.20	13.92	77.50	0.00	24.82
09/25/87	1400	9.94	174.30	13.51	78.30	0.00	24.81
09/25/87	1415	8.45	175.80	9.21	78.40	0.00	24.81
09/25/87	1430	7.47	163.30	12.69	79.10	0.00	24.81
09/25/87	1445	7.11	157.50	12.75	80.50	0.00	24.37
09/25/87	1500	8.81	170.30	15.47	80.50	0.00	22.82
09/25/87	1515	11.25	173.20	13.91	80.50	0.00	22.76
09/25/87	1530	11.15	168.80	19.37	81.60	0.00	22.43
09/25/87	1545	11.58	163.50	15.48	81.90	0.00	22.13
09/25/87	1600	11.86	171.60	4.84	81.70	0.00	21.86
09/25/87	1615	9.10	166.10	8.80	82.20	0.00	21.75
09/25/87	1630	11.61	165.60	7.64	82.30	0.00	21.79
09/25/87	1645	9.50	164.30	11.52	82.40	0.00	21.50
09/25/87	1700	9.15	164.50	12.75	82.50	0.00	21.54
09/25/87	1715	10.23	156.80	11.53	81.00	0.00	21.96
09/25/87	1730	8.99	141.90	9.96	80.40	0.00	22.25
09/25/87	1745	7.75	137.20	9.56	80.60	0.00	21.76
09/25/87	1800	8.45	128.30	4.44	81.10	0.00	21.43
09/25/87	1815	6.88	127.50	5.60	81.50	0.00	21.31
09/25/87	1830	5.86	123.30	11.13	81.70	0.00	21.13
09/25/87	1845	3.24	92.80	17.42	82.40	0.00	21.06
09/25/87	1900	2.54	99.10	10.72	82.10	0.00	20.97
09/25/87	1915	0.65	102.40	9.97	81.00	0.00	21.27
09/25/87	1930	4.08	309.70	9.90	80.30	0.00	22.27
09/25/87	1945	4.10	310.10	33.82	78.00	0.00	22.86
09/25/87	2000	6.87	206.10	7.93	76.60	0.00	24.73
09/25/87	2015	7.20	226.20	13.81	77.10	0.00	24.73
09/25/87	2030	6.13	170.20	5.20	75.90	0.00	24.73
09/25/87	2045	9.73	160.00	2.05	74.60	0.00	24.74
09/25/87	2100	12.63	168.20	2.87	73.30	0.00	24.74
09/25/87	2115	12.40	166.80	3.63	72.90	0.00	24.74
09/25/87	2130	11.32	163.00	2.46	72.10	0.00	24.74
09/25/87	2145	11.58	171.00	2.46	71.50	0.00	24.74
09/25/87	2200	10.81	180.10	2.81	70.80	0.00	24.74
09/25/87	2215	10.11	181.70	2.81	70.10	0.00	24.74
09/25/87	2230	10.93	183.30	2.81	69.86	0.00	24.74
09/25/87	2245	10.28	174.70	2.81	69.10	0.00	24.74
09/25/87	2300	8.63	173.10	4.04	68.58	0.00	24.74
09/25/87	2315	9.38	193.00	3.63	68.52	0.00	24.74
09/25/87	2330	11.86	200.50	3.22	67.84	0.00	24.74
09/25/87	2345	11.27	200.80	4.38	67.35	0.00	24.74
09/26/87	0	7.09	208.50	3.98	66.06	0.00	24.74



RMA METEOROLOGICAL DATA  
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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
09/26/87	15	5.34	207.70	2.40	65.34	0.00	24.74
09/26/87	30	3.85	212.00	8.71	64.50	0.00	24.73
09/26/87	45	6.15	209.00	2.74	64.96	0.00	24.74
09/26/87	100	8.75	208.50	1.58	64.22	0.00	24.74
09/26/87	115	9.71	208.90	1.99	62.49	0.00	24.74
09/26/87	130	9.78	202.70	1.99	61.34	0.00	24.74
09/26/87	145	9.32	203.70	1.99	61.26	0.00	24.75
09/26/87	200	9.09	204.00	1.99	60.34	0.00	24.75
09/26/87	215	10.41	195.70	1.99	59.22	0.00	24.75
09/26/87	230	11.78	194.80	1.99	59.56	0.00	24.75
09/26/87	245	11.32	195.60	2.33	59.72	0.00	24.74
09/26/87	300	10.79	199.10	1.99	59.14	0.00	24.74
09/26/87	315	10.05	199.50	1.58	58.36	0.00	24.74
09/26/87	330	8.92	199.60	1.58	57.49	0.00	24.74
09/26/87	345	8.29	200.30	1.58	57.24	0.00	24.74
09/26/87	400	7.21	196.10	2.33	56.82	0.00	24.74
09/26/87	415	7.19	195.00	1.92	57.22	0.00	24.74
09/26/87	430	7.36	199.40	1.92	56.68	0.00	24.74
09/26/87	445	7.99	206.30	2.33	56.21	0.00	24.74
09/26/87	500	7.97	204.00	2.33	55.59	0.00	24.74
09/26/87	515	7.73	210.00	1.92	55.18	0.00	24.74
09/26/87	530	7.46	219.20	1.92	55.93	0.00	24.74
09/26/87	545	7.38	215.00	1.92	56.90	0.00	24.75
09/26/87	600	6.98	221.90	3.91	56.86	0.00	24.75
09/26/87	615	5.58	234.20	1.92	56.40	0.00	24.75
09/26/87	630	5.00	226.60	1.99	56.86	0.00	24.75
09/26/87	645	4.93	226.30	2.33	56.46	0.00	24.75
09/26/87	700	4.68	227.30	1.58	55.69	0.00	24.75
09/26/87	715	5.41	215.30	1.99	55.49	0.00	24.75
09/26/87	730	6.62	211.70	1.58	55.73	0.00	24.75
09/26/87	745	8.30	208.70	1.17	55.56	0.00	24.75
09/26/87	800	8.34	205.30	2.33	54.48	0.00	24.75
09/26/87	815	9.38	195.50	1.58	52.85	0.00	24.75
09/26/87	830	9.99	200.40	1.58	52.38	0.00	24.75
09/26/87	845	9.38	197.50	1.99	52.50	0.00	24.75
09/26/87	900	8.43	198.20	1.58	52.47	0.00	24.75
09/26/87	915	8.28	202.10	2.40	52.64	0.00	24.76
09/26/87	930	8.33	203.20	2.40	52.87	0.00	24.75
09/26/87	945	7.80	196.90	2.40	53.51	0.00	24.75
09/26/87	1000	7.92	188.50	2.40	55.06	0.00	24.75
09/26/87	1015	7.30	197.80	3.57	56.95	0.00	24.75
09/26/87	1030	6.83	201.40	5.14	59.02	0.00	24.75
09/26/87	1045	9.37	219.30	3.22	61.13	0.00	24.75
09/26/87	1100	9.60	211.40	4.04	62.55	0.00	24.74
09/26/87	1115	8.59	207.30	4.04	64.02	0.00	24.71
09/26/87	1130	8.18	208.00	5.20	65.92	0.00	24.73

RMA METEOROLOGICAL DATA  
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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
09/26/87	1145	7.55	204.00	6.30	67.55	0.00	23.57
09/26/87	1200	7.12	204.50	4.79	69.33	0.00	23.61
09/26/87	1215	6.71	193.60	10.32	70.80	0.00	23.28
09/26/87	1230	5.47	203.60	12.23	72.80	0.00	24.17
09/26/87	1245	5.71	184.40	10.31	74.60	0.00	24.73
09/26/87	1300	7.31	149.60	7.99	75.20	0.00	24.74
09/26/87	1315	6.93	146.00	7.24	75.60	0.00	24.74
09/26/87	1330	6.12	155.20	13.51	76.40	0.00	24.74
09/26/87	1345	6.63	168.10	15.08	76.90	0.00	24.74
09/26/87	1400	5.70	173.10	17.05	77.30	0.00	24.74
09/26/87	1415	6.93	167.90	22.50	77.80	0.00	24.73
09/26/87	1430	6.55	138.20	17.45	77.90	0.00	24.72
09/26/87	1445	4.02	125.20	53.10	78.90	0.00	24.72
09/26/87	1500	3.43	131.70	53.90	80.20	0.00	24.30
09/26/87	1515	6.35	130.90	31.14	80.10	0.00	24.71
09/26/87	1530	6.23	79.60	22.55	80.60	0.00	24.71
09/26/87	1545	5.35	122.00	28.00	80.20	0.00	24.71
09/26/87	1600	6.18	155.90	11.92	79.70	0.00	24.70
09/26/87	1615	3.46	180.60	40.96	81.40	0.00	24.69
09/26/87	1630	4.23	126.80	17.85	82.50	0.00	24.70
09/26/87	1645	3.35	125.80	17.03	82.00	0.00	24.70
09/26/87	1700	2.97	147.20	13.83	80.10	0.00	24.67
09/26/87	1715	2.51	141.60	57.46	82.60	0.00	24.62
09/26/87	1730	4.17	282.70	19.02	82.60	0.00	24.64
09/26/87	1745	5.25	218.00	14.25	80.20	0.00	24.65
09/26/87	1800	6.77	261.20	4.84	79.00	0.00	24.66
09/26/87	1815	8.95	264.70	6.42	79.40	0.00	24.66
09/26/87	1830	5.55	273.40	15.02	80.30	0.00	24.66
09/26/87	1845	6.07	258.80	8.40	80.50	0.00	24.66
09/26/87	1900	5.91	257.30	5.94	80.20	0.00	24.66
09/26/87	1915	11.46	256.40	8.33	78.70	0.00	24.67
09/26/87	1930	9.60	242.90	3.21	77.00	0.00	24.70
09/26/87	1945	10.17	259.40	4.38	76.90	0.00	24.70
09/26/87	2000	7.97	267.70	3.62	75.50	0.00	24.70
09/26/87	2015	6.73	263.30	2.80	74.20	0.00	24.70
09/26/87	2030	6.95	251.10	3.63	73.30	0.00	24.70
09/26/87	2045	7.83	248.60	2.46	72.70	0.00	24.71
09/26/87	2100	9.31	248.70	4.45	72.70	0.00	24.71
09/26/87	2115	9.27	255.40	2.46	72.40	0.00	24.71
09/26/87	2130	7.80	258.60	6.37	72.50	0.00	24.71
09/26/87	2145	6.61	273.70	23.28	72.10	0.00	24.71
09/26/87	2200	4.50	314.40	15.41	71.40	0.00	24.71
09/26/87	2215	5.88	314.30	21.30	72.30	0.00	24.72
09/26/87	2230	15.74	249.70	19.31	73.40	0.00	24.72
09/26/87	2245	11.43	261.70	21.30	72.00	0.00	24.73
09/26/87	2300	9.80	256.40	3.63	70.20	0.00	24.73

RMA METEOROLOGICAL DATA  
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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRSS (IN HG)
09/26/87	2315	9.04	259.80	3.22	69.52	0.00	24.73
09/26/87	2330	7.44	269.10	3.63	69.16	0.00	24.73
09/26/87	2345	5.54	238.60	22.47	68.22	0.00	24.73
09/27/87	0	5.35	256.00	3.63	68.88	0.00	24.73
09/27/87	15	2.48	229.20	50.63	69.19	0.00	24.73
09/27/87	30	6.87	251.70	4.80	70.90	0.00	24.73
09/27/87	45	8.63	258.20	4.04	70.50	0.00	24.72
09/27/87	100	6.23	222.20	5.21	68.31	0.00	24.72
09/27/87	115	6.82	277.80	13.43	67.46	0.00	24.72
09/27/87	130	5.07	169.10	15.35	67.57	0.00	24.72
09/27/87	145	6.53	188.30	2.40	67.31	0.00	24.71
09/27/87	200	8.67	214.00	2.06	67.58	0.00	24.72
09/27/87	215	7.74	208.30	4.39	67.37	0.00	24.71
09/27/87	230	7.24	201.00	2.40	66.14	0.00	24.70
09/27/87	245	8.60	204.10	2.74	64.77	0.00	24.67
09/27/87	300	9.66	204.60	3.98	66.13	0.00	24.73
09/27/87	315	8.70	223.10	1.58	66.58	0.00	24.73
09/27/87	330	7.14	215.40	1.58	65.64	0.00	24.73
09/27/87	345	9.87	189.60	4.32	63.62	0.00	24.73
09/27/87	400	10.41	183.50	1.58	62.32	0.00	24.74
09/27/87	415	9.90	190.20	1.99	60.41	0.00	24.74
09/27/87	430	10.16	186.40	2.33	59.63	0.00	24.74
09/27/87	445	9.41	192.00	1.58	59.70	0.00	24.74
09/27/87	500	9.22	198.30	1.99	59.21	0.00	24.74
09/27/87	515	9.75	202.00	1.99	59.08	0.00	24.74
09/27/87	530	10.14	202.40	1.17	59.08	0.00	24.74
09/27/87	545	7.50	194.50	2.33	57.61	0.00	24.74
09/27/87	600	7.43	198.40	2.75	57.73	0.00	24.74
09/27/87	615	7.89	194.90	1.92	57.61	0.00	24.74
09/27/87	630	7.86	199.00	1.51	57.03	0.00	24.76
09/27/87	645	9.45	198.60	1.58	57.47	0.00	24.77
09/27/87	700	5.18	164.70	8.65	55.58	0.00	24.77
09/27/87	715	5.49	191.00	3.91	56.61	0.00	24.78
09/27/87	730	4.15	180.90	7.42	56.54	0.00	24.78
09/27/87	745	4.64	157.00	4.26	55.32	0.00	24.78
09/27/87	800	6.86	171.00	1.92	59.16	0.00	24.78
09/27/87	815	6.99	183.70	3.16	60.37	0.00	24.78
09/27/87	830	8.17	175.50	2.06	58.55	0.00	24.79
09/27/87	845	9.34	172.10	1.24	58.55	0.00	24.79
09/27/87	900	8.65	171.90	23.21	58.35	0.00	24.80
09/27/87	915	3.14	155.80	18.40	54.15	0.00	24.80
09/27/87	930	1.72	171.00	56.09	55.16	0.00	24.81
09/27/87	945	2.94	248.10	29.44	54.31	0.00	24.82
09/27/87	1000	2.61	42.59	51.81	54.14	0.00	24.82
09/27/87	1015	3.79	187.80	60.05	55.17	0.00	24.83
09/27/87	1030	4.71	281.70	22.02	57.88	0.00	24.83

RMA METEOROLOGICAL DATA  
FROM STATION M1  
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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
09/27/87	1045	3.63	154.40	11.05	58.84	0.00	24.83
09/27/87	1100	4.78	137.00	6.72	58.88	0.00	24.83
09/27/87	1115	6.73	127.40	3.57	59.87	0.00	24.83
09/27/87	1130	5.50	140.30	5.90	62.59	0.00	24.83
09/27/87	1145	6.58	131.00	5.55	64.90	0.00	24.83
09/27/87	1200	8.67	115.30	3.22	65.87	0.00	24.84
09/27/87	1215	9.62	105.10	6.37	66.45	0.00	24.84
09/27/87	1230	12.51	92.60	7.54	66.57	0.00	24.83
09/27/87	1245	11.91	87.70	5.21	66.09	0.00	24.83
09/27/87	1300	14.19	87.00	5.62	64.83	0.00	24.85
09/27/87	1315	15.59	80.90	3.63	64.78	0.00	24.85
09/27/87	1330	15.47	75.50	7.19	65.64	0.00	24.73
09/27/87	1345	15.75	74.10	5.62	65.72	0.00	23.29
09/27/87	1400	17.44	75.00	5.62	66.21	0.00	22.76
09/27/87	1415	18.87	75.10	5.20	65.43	0.00	22.66
09/27/87	1430	17.85	70.60	8.35	64.91	0.00	22.57
09/27/87	1445	19.00	73.90	7.19	64.82	0.00	22.42
09/27/87	1500	18.62	67.06	6.71	65.38	0.00	23.66
09/27/87	1515	15.74	62.20	10.33	64.77	0.00	24.85
09/27/87	1530	14.03	66.38	9.17	64.85	0.00	24.85
09/27/87	1545	13.15	64.82	10.74	66.04	0.00	24.85
09/27/87	1600	13.34	70.60	8.35	65.11	0.00	24.86
09/27/87	1615	14.01	73.90	8.76	65.56	0.00	24.86
09/27/87	1630	13.02	73.40	10.74	64.66	0.00	24.86
09/27/87	1645	12.45	75.50	5.61	64.67	0.00	24.87
09/27/87	1700	11.98	84.40	11.84	65.62	0.00	24.87
09/27/87	1715	12.59	80.70	7.53	65.47	0.00	24.87
09/27/87	1730	12.90	86.20	7.94	66.81	0.00	24.87
09/27/87	1745	13.70	85.10	11.91	66.64	0.00	24.87
09/27/87	1800	14.59	102.40	6.78	66.53	0.00	24.87
09/27/87	1815	12.41	103.10	8.35	66.66	0.00	24.88
09/27/87	1830	10.34	109.60	11.09	66.92	0.00	24.88
09/27/87	1845	13.31	113.70	6.78	66.45	0.00	24.87
09/27/87	1900	12.95	119.30	9.58	65.92	0.00	24.88
09/27/87	1915	12.45	111.50	8.42	65.67	0.00	24.87
09/27/87	1930	10.75	97.40	6.03	65.24	0.00	24.88
09/27/87	1945	8.87	102.60	6.85	65.14	0.00	24.88
09/27/87	2000	9.06	107.10	4.45	64.61	0.00	24.88
09/27/87	2015	11.37	115.50	4.04	63.39	0.00	24.84
09/27/87	2030	10.82	110.20	3.63	62.06	0.00	24.67
09/27/87	2045	10.22	111.60	2.81	60.84	0.00	24.37
09/27/87	2100	9.99	114.70	2.40	60.06	0.00	24.86
09/27/87	2115	9.07	111.60	2.81	59.41	0.00	24.07
09/27/87	2130	8.23	110.00	1.65	58.59	0.00	24.48
09/27/87	2145	8.20	114.20	1.99	57.86	0.00	24.93
09/27/87	2200	7.39	133.10	2.40	56.86	0.00	24.94

RMA METEOROLOGICAL DATA  
FROM STATION M1  
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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
09/27/87	2215	7.26	138.30	1.58	56.63	0.00	24.95
09/27/87	2230	8.00	138.20	1.17	55.93	0.00	24.95
09/27/87	2245	9.16	148.90	3.16	55.05	0.00	24.95
09/27/87	2300	9.03	161.60	14.14	53.83	0.00	24.96
09/27/87	2315	8.73	180.30	4.33	53.63	0.00	24.97
09/27/87	2330	6.34	204.00	2.33	52.72	0.00	24.97
09/27/87	2345	5.10	205.70	1.92	53.47	0.00	24.98
09/28/87	0	2.89	226.90	8.31	51.89	0.00	24.99
09/28/87	15	0.50	9.07	0.34	49.91	0.00	25.00
09/28/87	30	1.18	178.80	20.81	51.69	0.00	25.00
09/28/87	45	0.97	85.00	6.32	51.19	0.00	25.00
09/28/87	100	0.34	300.70	34.48	51.33	0.00	25.00
09/28/87	115	1.77	45.71	16.83	52.14	0.00	25.01
09/28/87	130	2.53	41.51	5.77	51.66	0.00	25.01
09/28/87	145	3.46	59.80	4.74	51.21	0.00	25.01
09/28/87	200	3.21	83.10	5.50	51.62	0.00	25.01
09/28/87	215	3.27	83.40	3.92	51.71	0.00	25.01
09/28/87	230	3.82	89.10	1.58	52.28	0.00	25.01
09/28/87	245	3.56	86.60	2.34	52.35	0.00	25.02
09/28/87	300	3.23	160.40	12.10	50.24	0.00	25.03
09/28/87	315	4.24	206.00	3.16	47.93	0.00	25.03
09/28/87	330	4.53	224.10	2.34	48.73	0.00	25.02
09/28/87	345	4.31	226.30	5.09	48.45	0.00	25.02
09/28/87	400	3.05	249.40	5.08	48.60	0.00	25.02
09/28/87	415	3.22	342.20	4.67	48.81	0.00	25.03
09/28/87	430	4.89	33.83	7.08	45.80	0.00	25.04
09/28/87	445	1.53	51.69	12.92	45.75	0.00	25.04
09/28/87	500	1.59	43.52	16.49	45.96	0.00	25.04
09/28/87	515	1.63	31.66	9.00	46.01	0.00	25.04
09/28/87	530	4.33	334.10	3.92	46.41	0.00	25.04
09/28/87	545	6.53	334.30	2.68	46.11	0.00	25.04
09/28/87	600	5.82	337.70	2.68	46.36	0.00	25.04
09/28/87	615	6.80	339.60	1.51	46.03	0.00	25.05
09/28/87	630	4.78	352.00	7.42	45.13	0.00	25.05
09/28/87	645	3.63	348.60	1.51	44.38	0.00	25.06
09/28/87	700	1.70	3.22	2.34	43.16	0.00	25.06
09/28/87	715	2.35	29.32	12.51	42.44	0.00	25.07
09/28/87	730	1.67	34.96	7.43	41.96	0.00	25.07
09/28/87	745	1.59	41.50	4.88	41.70	0.00	25.07
09/28/87	800	1.46	39.49	3.85	41.33	0.00	25.07
09/28/87	815	1.15	27.25	3.85	41.77	0.00	25.08
09/28/87	830	0.72	21.78	4.26	41.88	0.00	25.09
09/28/87	845	0.85	10.77	2.68	42.25	0.00	25.09
09/28/87	900	1.65	30.68	2.34	41.78	0.00	25.09
09/28/87	915	2.59	48.21	5.09	41.47	0.00	25.10
09/28/87	930	3.22	37.71	5.43	42.08	0.00	25.11

RMA METEOROLOGICAL DATA  
FROM STATION M1  
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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
09/28/87	945	2.54	56.52	6.26	42.55	0.00	25.10
09/28/87	1000	1.59	47.18	6.67	43.34	0.00	25.11
09/28/87	1015	1.59	33.49	3.57	43.25	0.00	25.11
09/28/87	1030	1.62	31.47	15.73	44.26	0.00	25.12
09/28/87	1045	2.66	35.52	5.15	44.34	0.00	25.12
09/28/87	1100	2.50	51.49	7.42	43.88	0.00	25.12
09/28/87	1115	3.27	48.74	9.89	47.19	0.00	25.12
09/28/87	1130	3.33	48.44	23.54	48.97	0.00	25.11
09/28/87	1145	2.44	101.50	20.44	50.47	0.00	25.12
09/28/87	1200	2.44	163.50	21.59	51.97	0.00	25.11
09/28/87	1215	3.13	208.10	36.92	51.14	0.00	25.11
09/28/87	1230	3.28	120.50	15.40	51.92	0.00	25.11
09/28/87	1245	3.70	114.90	19.71	52.71	0.00	25.10
09/28/87	1300	4.26	123.40	22.85	52.81	0.00	25.09
09/28/87	1315	3.29	30.97	24.76	54.30	0.00	25.09
09/28/87	1330	3.98	83.60	24.00	54.66	0.00	25.09
09/28/87	1345	5.14	92.10	10.67	54.24	0.00	25.08
09/28/87	1400	3.11	124.80	29.82	55.75	0.00	25.08
09/28/87	1415	3.29	226.80	25.50	56.71	0.00	25.07
09/28/87	1430	4.16	279.90	31.03	57.02	0.00	25.05
09/28/87	1445	4.59	67.78	27.13	58.34	0.00	24.99
09/28/87	1500	4.44	37.09	33.01	58.72	0.00	24.97
09/28/87	1515	3.88	20.72	66.42	59.17	0.00	24.94
09/28/87	1530	4.44	66.69	16.19	60.22	0.00	24.66
09/28/87	1545	3.62	10.79	23.64	61.04	0.00	24.06
09/28/87	1600	4.58	358.40	14.21	60.96	0.00	24.07
09/28/87	1615	5.63	17.59	14.21	60.94	0.00	23.91
09/28/87	1630	6.44	345.40	24.39	61.21	0.00	23.90
09/28/87	1645	5.82	3.54	16.95	61.47	0.00	23.83
09/28/87	1700	6.46	353.20	18.52	61.72	0.00	23.82
09/28/87	1715	7.01	1.91	21.26	62.78	0.00	23.82
09/28/87	1730	6.04	11.29	15.38	63.28	0.00	23.81
09/28/87	1745	7.38	11.91	18.46	63.98	0.00	23.81
09/28/87	1800	7.00	34.70	8.75	64.09	0.00	23.90
09/28/87	1815	7.25	21.82	10.26	64.44	0.00	23.92
09/28/87	1830	6.64	17.68	8.00	64.07	0.00	23.95
09/28/87	1845	6.46	13.06	15.32	64.49	0.00	23.98
09/28/87	1900	5.89	0.53	11.08	64.47	0.00	24.27
09/28/87	1915	6.44	13.24	15.81	64.51	0.00	24.72
09/28/87	1930	5.85	26.10	7.19	64.66	0.00	24.90
09/28/87	1945	5.64	18.81	5.95	64.38	0.00	24.98
09/28/87	2000	5.31	16.25	4.79	63.86	0.00	24.99
09/28/87	2015	4.84	16.38	2.05	62.85	0.00	25.00
09/28/87	2030	5.01	28.08	1.23	61.54	0.00	25.00
09/28/87	2045	4.99	32.54	2.06	60.32	0.00	24.99
09/28/87	2100	5.53	38.42	1.23	59.53	0.00	24.99

RMA METEOROLOGICAL DATA  
FROM STATION M1  
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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
09/28/87	2115	5.24	42.32	0.82	58.82	0.00	25.01
09/28/87	2130	4.00	35.74	1.99	57.94	0.00	25.02
09/28/87	2145	3.01	70.90	5.56	56.37	0.00	25.04
09/28/87	2200	3.27	77.20	3.16	56.89	0.00	25.05
09/28/87	2215	3.51	75.40	3.57	56.95	0.00	25.05
09/28/87	2230	4.06	91.20	1.99	56.73	0.00	25.05
09/28/87	2245	4.58	98.80	4.67	57.94	0.00	25.06
09/28/87	2300	7.09	141.40	1.92	56.35	0.00	25.07
09/28/87	2315	8.56	148.10	1.92	56.82	0.00	25.08
09/28/87	2330	8.66	152.20	2.33	56.85	0.00	25.08
09/28/87	2345	5.00	218.50	7.90	51.61	0.00	25.08
09/29/87	0	5.15	217.70	3.16	53.99	0.00	25.09
09/29/87	15	5.11	218.20	3.16	54.75	0.00	25.09
09/29/87	30	3.91	218.60	3.50	54.58	0.00	25.10
09/29/87	45	3.38	216.00	10.99	54.05	0.00	25.10
09/29/87	100	2.94	187.40	4.33	53.67	0.00	25.11
09/29/87	115	4.44	183.20	6.25	52.84	0.00	25.11
09/29/87	130	4.65	159.50	6.67	52.71	0.00	25.11
09/29/87	145	5.46	174.90	1.58	52.72	0.00	25.11
09/29/87	200	5.96	180.80	1.17	51.61	0.00	25.11
09/29/87	215	7.50	188.20	2.34	51.34	0.00	25.11
09/29/87	230	7.72	202.60	0.34	51.24	0.00	25.11
09/29/87	245	7.57	211.0	1.17	50.68	0.00	25.11
09/29/87	300	3.20	216.80	9.83	46.40	0.00	25.12
09/29/87	315	1.35	214.90	13.33	44.96	0.00	25.12
09/29/87	330	2.95	220.20	7.01	47.24	0.00	25.12
09/29/87	345	3.05	236.90	5.84	46.57	0.00	25.12
09/29/87	400	3.91	205.70	2.68	46.25	0.00	25.12
09/29/87	415	3.64	209.30	2.34	46.61	0.00	25.12
09/29/87	430	3.84	230.60	2.68	45.89	0.00	25.12
09/29/87	445	3.88	222.20	6.26	45.87	0.00	25.12
09/29/87	500	2.73	221.70	3.92	46.33	0.00	25.12
09/29/87	515	3.15	200.20	3.51	46.57	0.00	25.12
09/29/87	530	3.35	205.80	5.84	46.68	0.00	25.12
09/29/87	545	3.65	214.50	4.68	46.53	0.00	25.12
09/29/87	600	2.78	227.50	6.60	46.71	0.00	25.12
09/29/87	615	3.36	226.10	2.27	46.91	0.00	25.12
09/29/87	630	4.48	217.90	1.93	46.86	0.00	25.12
09/29/87	645	5.56	213.80	1.51	46.64	0.00	25.12
09/29/87	700	6.02	214.90	1.93	45.59	0.00	25.12
09/29/87	715	5.04	219.10	2.34	44.51	0.00	25.12
09/29/87	730	3.97	217.20	2.68	43.95	0.00	25.13
09/29/87	745	4.49	207.90	1.93	43.94	0.00	25.13
09/29/87	800	5.60	210.50	1.93	44.10	0.00	25.13
09/29/87	815	6.12	210.10	1.51	43.70	0.00	25.13
09/29/87	830	6.39	204.10	2.27	43.16	0.00	25.13

RMA METEOROLOGICAL DATA  
FROM STATION M1  
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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
09/29/87	845	5.55	209.30	1.86	42.77	0.00	25.14
09/29/87	900	5.25	216.80	2.27	42.38	0.00	25.14
09/29/87	915	5.32	226.20	2.27	42.16	0.00	25.15
09/29/87	930	5.03	223.10	1.93	41.96	0.00	25.15
09/29/87	945	4.98	216.50	2.68	42.44	0.00	25.15
09/29/87	1000	5.28	210.00	3.50	43.82	0.00	25.15
09/29/87	1015	5.51	208.50	3.16	45.33	0.00	25.15
09/29/87	1030	4.59	214.10	4.26	46.85	0.00	25.16
09/29/87	1045	3.52	227.70	9.40	48.60	0.00	25.16
09/29/87	1100	3.34	248.60	14.20	50.10	0.00	25.16
09/29/87	1115	3.27	265.80	10.28	51.47	0.00	25.16
09/29/87	1130	3.75	286.30	25.07	52.55	0.00	25.16
09/29/87	1145	4.23	313.80	28.28	53.20	0.00	25.16
09/29/87	1200	4.53	321.70	15.40	53.94	0.00	25.16
09/29/87	1215	3.88	331.10	23.60	54.98	0.00	25.16
09/29/87	1230	4.36	324.00	13.06	55.79	0.00	25.16
09/29/87	1245	3.48	339.60	27.07	57.39	0.00	25.14
09/29/87	1300	4.26	1.92	27.88	57.66	0.00	25.03
09/29/87	1315	4.43	24.81	21.66	58.27	0.00	25.02
09/29/87	1330	4.62	5.59	9.09	59.44	0.00	25.02
09/29/87	1345	3.88	340.20	22.47	60.61	0.00	24.41
09/29/87	1400	2.86	340.90	47.12	61.63	0.00	23.96
09/29/87	1415	3.06	81.40	36.59	63.15	0.00	25.07
09/29/87	1430	3.09	161.80	43.41	63.49	0.00	25.06
09/29/87	1445	3.55	25.85	25.12	64.56	0.00	25.12
09/29/87	1500	3.17	354.40	53.03	65.09	0.00	25.12
09/29/87	1515	3.88	2.73	30.30	65.89	0.00	25.12
09/29/87	1530	4.27	340.70	22.45	65.43	0.00	25.11
09/29/87	1545	4.03	335.30	17.74	66.16	0.00	25.10
09/29/87	1600	5.27	33.30	32.68	66.87	0.00	25.10
09/29/87	1615	6.99	37.48	11.88	66.59	0.00	25.10
09/29/87	1630	6.12	49.95	20.14	67.11	0.00	25.09
09/29/87	1645	7.10	59.80	13.86	67.03	0.00	25.09
09/29/87	1700	6.24	59.63	20.49	67.53	0.00	25.09
09/29/87	1715	6.46	41.72	19.74	67.44	0.00	25.08
09/29/87	1730	5.88	63.73	34.23	67.74	0.00	25.07
09/29/87	1745	4.82	39.02	12.64	67.87	0.00	25.07
09/29/87	1800	6.73	67.17	17.36	67.95	0.00	25.07
09/29/87	1815	5.65	62.97	24.41	68.41	0.00	25.06
09/29/87	1830	5.03	37.18	24.75	68.51	0.00	25.06
09/29/87	1845	5.99	49.70	19.69	68.53	0.00	25.06
09/29/87	1900	5.59	37.63	7.52	68.30	0.00	25.06
09/29/87	1915	3.83	57.00	18.94	68.48	0.00	25.06
09/29/87	1930	5.08	41.80	9.92	67.94	0.00	25.07
09/29/87	1945	4.68	39.52	3.28	68.15	0.00	25.06
09/29/87	2000	3.30	17.07	4.38	67.23	0.00	25.07



RMA METEOROLOGICAL DATA  
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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
09/29/87	2015	3.04	17.86	4.79	66.21	0.00	25.09
09/29/87	2030	4.59	37.22	2.46	64.63	0.00	25.09
09/29/87	2045	4.45	40.60	1.64	62.16	0.00	25.09
09/29/87	2100	4.93	40.63	13.01	61.63	0.00	25.10
09/29/87	2115	4.45	62.82	3.56	60.80	0.00	25.11
09/29/87	2130	4.36	81.50	2.74	61.92	0.00	25.11
09/29/87	2145	6.39	94.40	1.17	61.38	0.00	25.12
09/29/87	2200	6.56	108.30	1.17	60.14	0.00	25.13
09/29/87	2215	7.12	111.20	4.73	59.82	0.00	25.13
09/29/87	2230	7.25	120.90	1.99	59.25	0.00	25.13
09/29/87	2245	9.00	129.40	3.57	57.95	0.00	25.13
09/29/87	2300	8.57	132.30	1.92	57.79	0.00	25.14
09/29/87	2315	9.93	136.40	5.49	55.82	0.00	25.14
09/29/87	2330	9.63	139.80	1.99	55.24	0.00	25.15
09/29/87	2345	8.43	124.50	2.33	56.21	0.00	25.15
09/30/87	0	8.09	131.30	3.98	55.55	0.00	25.15
09/30/87	15	6.43	197.70	9.07	50.93	0.00	25.17
09/30/87	30	5.00	210.80	8.66	52.61	0.00	25.17
09/30/87	45	5.89	194.10	5.50	53.40	0.00	25.17
09/30/87	100	7.03	180.00	1.58	55.04	0.00	25.17
09/30/87	115	8.35	176.20	1.99	55.99	0.00	25.17
09/30/87	130	9.03	186.40	1.58	56.19	0.00	25.16
09/30/87	145	9.08	192.90	1.58	53.60	0.00	25.16
09/30/87	200	8.22	198.70	1.99	51.22	0.00	25.16
09/30/87	215	8.15	194.30	1.58	50.86	0.00	25.17
09/30/87	230	8.58	192.00	1.58	49.71	0.00	25.17
09/30/87	245	8.77	195.50	1.99	49.66	0.00	25.17
09/30/87	300	8.55	194.30	1.58	49.76	0.00	25.16
09/30/87	315	8.85	188.80	1.58	48.96	0.00	25.16
09/30/87	330	10.21	183.60	1.17	48.48	0.00	25.16
09/30/87	345	10.46	184.10	1.58	48.27	0.00	25.15
09/30/87	400	10.82	186.00	1.99	47.80	0.00	25.15
09/30/87	415	10.13	191.50	1.99	46.51	0.00	25.15
09/30/87	430	9.19	195.70	1.17	46.42	0.00	25.15
09/30/87	445	8.20	196.30	1.17	46.05	0.00	25.15
09/30/87	500	7.88	189.30	0.76	45.73	0.00	25.15
09/30/87	515	8.14	190.00	1.58	45.42	0.00	25.15
09/30/87	530	6.61	185.80	1.17	44.98	0.00	25.14
09/30/87	545	4.63	193.10	3.51	43.84	0.00	25.14
09/30/87	600	5.03	190.10	1.93	44.58	0.00	25.14
09/30/87	615	5.06	194.80	1.51	44.67	0.00	25.14
09/30/87	630	6.93	199.30	1.10	45.32	0.00	25.13
09/30/87	645	6.70	202.30	1.10	44.92	0.00	25.13
09/30/87	700	5.76	210.20	3.09	43.50	0.00	25.13
09/30/87	715	6.14	216.30	1.93	43.45	0.00	25.13
09/30/87	730	6.97	213.70	4.68	44.52	0.00	25.13

RMA METEOROLOGICAL DATA  
FROM STATION M1  
07/17 - 10/08, 1987

DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
09/30/87	745	7.02	206.70	2.68	42.99	0.00	25.13
09/30/87	800	6.65	206.40	1.93	42.88	0.00	25.13
09/30/87	815	6.47	204.90	1.93	42.81	0.00	25.13
09/30/87	830	7.05	203.00	1.51	43.10	0.00	25.13
09/30/87	845	6.14	199.60	1.93	42.66	0.00	25.13
09/30/87	900	6.62	196.50	1.51	42.54	0.00	25.13
09/30/87	915	7.31	196.90	1.51	42.19	0.00	25.13
09/30/87	930	6.11	199.40	1.10	42.15	0.00	25.13
09/30/87	945	5.79	195.20	1.51	42.55	0.00	25.13
09/30/87	1000	6.27	198.50	3.50	44.03	0.00	25.13
09/30/87	1015	6.12	207.50	3.50	46.19	0.00	25.13
09/30/87	1030	5.79	220.00	4.26	47.67	0.00	25.13
09/30/87	1045	5.59	215.40	7.82	49.98	0.00	25.13
09/30/87	1100	5.85	226.80	4.32	52.01	0.00	25.13
09/30/87	1115	5.62	222.70	9.80	53.61	0.00	25.13
09/30/87	1130	5.13	230.30	15.35	55.08	0.00	25.12
09/30/87	1145	3.79	232.60	14.93	56.76	0.00	25.12
09/30/87	1200	3.36	241.20	26.69	58.15	0.00	25.12
09/30/87	1215	2.75	217.80	33.38	59.22	0.00	25.12
09/30/87	1230	2.97	219.70	14.57	60.20	0.00	25.11
09/30/87	1245	2.28	222.10	25.15	61.98	0.00	25.10
09/30/87	1300	3.17	217.20	20.91	62.43	0.00	25.08
09/30/87	1315	2.42	176.30	48.69	64.31	0.00	25.07
09/30/87	1330	2.68	71.10	9.97	65.77	0.00	25.08
09/30/87	1345	3.13	93.40	36.18	66.36	0.00	25.08
09/30/87	1400	3.30	111.90	22.52	66.56	0.00	25.07
09/30/87	1415	2.33	92.60	68.78	68.12	0.00	25.06
09/30/87	1430	4.50	150.20	27.15	67.95	0.00	25.06
09/30/87	1445	2.68	139.90	59.82	68.87	0.00	25.05
09/30/87	1500	3.24	147.10	61.31	69.79	0.00	25.05
09/30/87	1515	3.80	136.80	17.80	69.85	0.00	25.03
09/30/87	1530	3.23	112.90	43.63	71.10	0.00	24.86
09/30/87	1545	3.23	171.60	62.93	71.30	0.00	24.59
09/30/87	1600	4.49	119.30	30.34	71.70	0.00	24.60
09/30/87	1615	4.57	76.60	33.48	72.50	0.00	24.51
09/30/87	1630	3.21	61.13	13.50	73.40	0.00	24.47
09/30/87	1645	5.49	78.00	26.80	72.60	0.00	24.57
09/30/87	1700	3.50	159.10	22.17	73.70	0.00	24.49
09/30/87	1715	4.28	40.57	17.06	73.90	0.00	24.47
09/30/87	1730	3.67	107.10	36.98	74.50	0.00	24.45
09/30/87	1745	5.33	107.70	26.82	73.70	0.00	24.40
09/30/87	1800	3.28	75.80	21.37	75.50	0.00	24.41
09/30/87	1815	2.51	66.68	69.57	75.50	0.00	24.42
09/30/87	1830	1.88	72.80	37.34	75.80	0.00	24.43
09/30/87	1845	3.03	16.60	24.85	75.60	0.00	24.43
09/30/87	1900	3.72	76.70	9.97	74.80	0.00	24.48

RMA METEOROLOGICAL DATA  
FROM STATION M1  
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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
09/30/87	1915	1.66	142.00	34.63	75.70	0.00	24.67
09/30/87	1930	1.76	115.10	18.58	75.60	0.00	24.86
09/30/87	1945	2.33	86.70	13.12	74.80	0.00	24.89
09/30/87	2000	2.64	146.60	9.16	74.10	0.00	24.96
09/30/87	2015	2.25	114.10	4.03	73.20	0.00	24.93
09/30/87	2030	1.28	110.40	0.48	71.90	0.00	24.94
09/30/87	2045	0.91	172.60	9.92	69.08	0.00	24.96
09/30/87	2100	0.55	318.70	0.48	67.75	0.00	24.96
09/30/87	2115	0.13	107.30	16.57	65.89	0.00	24.96
09/30/87	2130	0.86	137.10	6.37	66.28	0.00	24.96
09/30/87	2145	2.05	149.50	3.15	67.72	0.00	24.96
09/30/87	2200	1.88	116.60	38.04	64.61	0.00	24.96
09/30/87	2215	5.65	146.00	1.58	65.82	0.00	24.78
09/30/87	2230	8.41	153.50	4.73	64.26	0.00	24.96
09/30/87	2245	7.43	209.30	12.97	60.96	0.00	24.97
09/30/87	2300	8.77	202.50	8.65	61.93	0.00	24.97
09/30/87	2315	6.78	232.00	3.50	60.11	0.00	24.98
09/30/87	2330	6.90	219.90	9.81	59.08	0.00	24.98
09/30/87	2345	6.90	204.90	4.32	59.40	0.00	24.98
10/01/87	0	8.39	190.10	2.75	58.78	0.00	24.98
10/01/87	15	7.97	186.40	1.99	56.33	0.00	24.98
10/01/87	30	9.36	183.40	2.33	55.92	0.00	24.98
10/01/87	45	8.90	178.90	2.75	56.53	0.00	24.98
10/01/87	100	6.18	144.40	10.30	55.24	0.00	24.98
10/01/87	115	5.78	146.10	7.83	55.67	0.00	24.97
10/01/87	130	8.13	182.30	2.75	54.95	0.00	24.97
10/01/87	145	7.00	192.90	1.58	53.70	0.00	24.97
10/01/87	200	7.32	202.50	3.57	54.80	0.00	24.97
10/01/87	215	6.76	207.90	2.40	53.50	0.00	24.97
10/01/87	230	7.00	221.30	3.98	53.32	0.00	24.97
10/01/87	245	6.87	217.10	2.75	52.19	0.00	24.96
10/01/87	300	6.03	220.50	5.91	51.09	0.00	24.96
10/01/87	315	7.79	209.10	1.99	51.78	0.00	24.96
10/01/87	330	8.35	213.20	5.15	51.72	0.00	24.96
10/01/87	345	6.00	209.30	2.34	50.17	0.00	24.96
10/01/87	400	6.76	198.00	3.57	50.22	0.00	24.96
10/01/87	415	8.14	197.50	2.75	49.53	0.00	24.96
10/01/87	430	6.80	210.40	3.50	48.33	0.00	24.97
10/01/87	445	7.32	200.00	2.75	48.87	0.00	24.97
10/01/87	500	8.00	192.50	1.58	49.69	0.00	24.97
10/01/87	515	9.98	190.30	1.58	50.48	0.00	24.96
10/01/87	530	9.12	193.70	2.34	50.92	0.00	24.96
10/01/87	545	8.56	196.30	2.75	51.10	0.00	24.96
10/01/87	600	9.35	200.60	2.75	50.49	0.00	24.95
10/01/87	615	7.87	211.40	7.08	49.12	0.00	24.95
10/01/87	630	8.71	210.60	2.75	48.42	0.00	24.95

RMA METEOROLOGICAL DATA  
FROM STATION M1  
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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
10/01/87	645	8.43	206.60	2.34	48.41	0.00	24.95
10/01/87	700	9.79	197.10	1.58	47.83	0.00	24.95
10/01/87	715	10.55	196.60	1.99	49.30	0.00	24.95
10/01/87	730	10.43	199.70	1.58	49.28	0.00	24.95
10/01/87	745	10.76	204.00	1.58	48.91	0.00	24.95
10/01/87	800	10.60	206.10	1.58	48.04	0.00	24.95
10/01/87	815	9.82	199.20	1.58	47.77	0.00	24.95
10/01/87	830	10.18	199.30	1.58	48.44	0.00	24.95
10/01/87	845	11.10	199.10	1.58	48.60	0.00	24.96
10/01/87	900	11.01	197.50	2.34	48.87	0.00	24.96
10/01/87	915	11.08	197.00	2.34	49.68	0.00	24.96
10/01/87	930	10.59	201.40	1.58	49.52	0.00	24.95
10/01/87	945	9.36	201.80	1.99	49.90	0.00	24.95
10/01/87	1000	9.06	200.80	2.68	51.57	0.00	24.95
10/01/87	1015	8.46	205.00	3.50	53.44	0.00	24.94
10/01/87	1030	8.24	208.50	3.50	55.16	0.00	24.94
10/01/87	1045	7.93	215.90	5.14	57.87	0.00	24.90
10/01/87	1100	8.21	219.30	5.55	59.69	0.00	24.94
10/01/87	1115	7.71	221.30	7.12	61.52	0.00	24.94
10/01/87	1130	5.54	221.20	5.20	64.15	0.00	24.93
10/01/87	1145	4.72	204.20	5.95	66.04	0.00	24.93
10/01/87	1200	3.08	222.80	12.18	68.43	0.00	24.94
10/01/87	1215	2.84	184.80	18.87	70.20	0.00	24.94
10/01/87	1230	2.53	211.50	28.69	71.20	0.00	24.94
10/01/87	1245	3.44	97.60	13.45	71.90	0.00	24.94
10/01/87	1300	3.28	62.92	23.20	72.90	0.00	24.94
10/01/87	1315	4.73	40.25	18.97	73.20	0.00	24.94
10/01/87	1330	4.94	43.44	9.55	74.10	0.00	24.94
10/01/87	1345	7.30	32.79	18.21	73.70	0.00	24.94
10/01/87	1400	9.90	45.57	4.84	74.70	0.00	24.94
10/01/87	1415	9.42	43.58	22.92	74.30	0.00	24.93
10/01/87	1430	11.48	33.44	11.94	75.20	0.00	24.92
10/01/87	1445	13.36	40.61	7.23	74.90	0.00	24.92
10/01/87	1500	13.77	43.29	10.72	74.80	0.00	24.92
10/01/87	1515	13.35	40.95	8.81	75.10	0.00	24.91
10/01/87	1530	13.54	44.45	9.15	75.30	0.00	24.91
10/01/87	1545	12.43	51.06	12.70	75.30	0.00	24.91
10/01/87	1600	12.13	48.89	15.43	75.60	0.00	24.91
10/01/87	1615	10.45	44.21	20.96	76.00	0.00	24.91
10/01/87	1630	9.31	40.37	10.38	75.90	0.00	24.91
10/01/87	1645	9.05	39.16	7.24	76.60	0.00	24.91
10/01/87	1700	12.04	48.54	13.86	76.50	0.00	24.90
10/01/87	1715	9.64	58.97	9.97	76.80	0.00	24.89
10/01/87	1730	9.50	62.58	10.72	77.00	0.00	24.89
10/01/87	1745	6.77	37.27	22.13	77.40	0.00	24.89
10/01/87	1800	7.55	49.19	10.72	77.40	0.00	24.89

RMA METEOROLOGICAL DATA  
FROM STATION M1  
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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
10/01/87	1815	8.68	51.32	10.38	77.40	0.00	24.89
10/01/87	1830	9.89	52.06	12.23	77.30	0.00	24.89
10/01/87	1845	10.42	49.09	11.89	77.00	0.00	24.89
10/01/87	1900	8.55	47.63	12.23	77.20	0.00	24.89
10/01/87	1915	8.12	47.53	7.65	76.80	0.00	24.89
10/01/87	1930	5.67	42.05	4.44	77.00	0.00	24.89
10/01/87	1945	4.37	43.36	7.18	76.80	0.00	24.89
10/01/87	2000	3.99	43.22	2.05	75.80	0.00	24.89
10/01/87	2015	3.94	44.38	2.46	75.10	0.00	24.90
10/01/87	2030	0.69	15.44	19.29	73.90	0.00	24.89
10/01/87	2045	0.83	349.00	4.79	72.70	0.00	24.90
10/01/87	2100	2.51	332.20	4.45	72.70	0.00	24.90
10/01/87	2115	3.10	338.10	2.05	72.00	0.00	24.90
10/01/87	2130	6.53	18.02	11.09	68.65	0.00	24.89
10/01/87	2145	6.04	61.67	3.97	62.06	0.00	24.90
10/01/87	2200	6.23	68.14	3.56	65.73	0.00	24.89
10/01/87	2215	5.17	59.41	3.15	63.19	0.00	24.94
10/01/87	2230	3.84	50.57	3.56	60.49	0.00	24.95
10/01/87	2245	3.90	73.70	10.22	58.99	0.00	24.96
10/01/87	2300	4.35	102.60	3.50	59.42	0.00	24.97
10/01/87	2315	7.94	136.30	3.91	60.32	0.00	24.98
10/01/87	2330	8.76	133.10	1.58	61.83	0.00	24.99
10/01/87	2345	7.86	140.90	44.68	61.39	0.00	25.00
10/02/87	0	3.37	278.20	7.41	56.77	0.00	25.02
10/02/87	15	4.26	303.80	10.57	58.58	0.00	25.04
10/02/87	30	4.74	272.50	11.74	56.86	0.00	25.04
10/02/87	45	5.36	285.20	5.42	58.22	0.00	25.04
10/02/87	100	5.03	313.40	12.09	57.20	0.00	25.05
10/02/87	115	3.16	302.50	7.07	56.41	0.00	25.05
10/02/87	130	3.31	277.70	6.66	56.93	0.00	25.05
10/02/87	145	3.24	266.30	5.15	56.92	0.00	25.06
10/02/87	200	3.85	253.40	7.90	56.39	0.00	25.06
10/02/87	215	3.75	252.90	5.50	56.18	0.00	25.07
10/02/87	230	4.02	273.90	3.16	56.58	0.00	25.07
10/02/87	245	3.71	268.80	5.84	56.20	0.00	25.07
10/02/87	300	2.94	273.50	3.92	56.22	0.00	25.08
10/02/87	315	2.63	290.00	4.74	57.06	0.00	25.08
10/02/87	330	1.00	249.50	43.07	55.64	0.00	25.08
10/02/87	345	0.16	348.80	20.06	54.25	0.00	25.08
10/02/87	400	1.19	34.03	10.99	54.17	0.00	25.08
10/02/87	415	2.03	47.93	11.34	54.37	0.00	25.09
10/02/87	430	2.21	73.10	4.33	53.54	0.00	25.09
10/02/87	445	4.19	74.10	5.02	53.46	0.00	25.09
10/02/87	500	4.87	76.90	3.57	53.18	0.00	25.09
10/02/87	515	5.26	83.80	2.34	52.97	0.00	25.09
10/02/87	530	5.05	83.60	3.57	51.98	0.00	25.09

RMA METEOROLOGICAL DATA  
FROM STATION M1  
07/17 - 10/08, 1987

DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
10/02/87	545	4.21	104.00	7.08	50.79	0.00	25.09
10/02/87	600	3.31	128.60	3.92	49.34	0.00	25.09
10/02/87	615	3.08	155.60	15.67	49.00	0.00	25.10
10/02/87	630	4.64	211.80	6.25	48.50	0.00	25.11
10/02/87	645	6.67	207.30	6.25	44.33	0.00	25.11
10/02/87	700	6.74	207.10	2.75	46.77	0.00	25.11
10/02/87	715	6.81	201.80	1.58	47.48	0.00	25.11
10/02/87	730	6.17	201.60	1.93	48.18	0.00	25.11
10/02/87	745	6.96	194.50	3.51	47.53	0.00	25.11
10/02/87	800	5.75	178.40	5.43	47.48	0.00	25.11
10/02/87	815	5.96	170.90	1.51	47.75	0.00	25.12
10/02/87	830	7.52	172.50	1.93	46.84	0.00	25.12
10/02/87	845	8.66	165.00	1.93	46.16	0.00	25.12
10/02/87	900	8.97	164.60	1.93	44.64	0.00	25.13
10/02/87	915	8.72	167.60	2.34	44.41	0.00	25.13
10/02/87	930	8.64	168.50	1.93	44.68	0.00	25.13
10/02/87	945	7.80	171.50	1.93	44.00	0.00	25.13
10/02/87	1000	6.99	181.60	2.75	44.79	0.00	25.13
10/02/87	1015	5.42	185.90	4.33	46.74	0.00	25.13
10/02/87	1030	5.41	194.40	5.84	48.74	0.00	25.13
10/02/87	1045	5.80	205.40	8.99	50.22	0.00	25.13
10/02/87	1100	5.04	203.90	8.64	52.50	0.00	25.13
10/02/87	1115	5.23	200.70	8.29	53.76	0.00	25.12
10/02/87	1130	4.96	215.70	7.54	55.12	0.00	25.12
10/02/87	1145	3.99	208.80	22.40	55.87	0.00	25.12
10/02/87	1200	3.24	214.40	28.69	57.31	0.00	25.12
10/02/87	1215	4.07	205.20	20.88	58.13	0.00	25.13
10/02/87	1230	4.86	187.20	7.94	59.28	0.00	25.12
10/02/87	1245	4.54	208.40	22.37	60.73	0.00	25.12
10/02/87	1300	4.18	220.40	35.69	61.88	0.00	25.12
10/02/87	1315	3.59	186.80	24.74	63.07	0.00	25.12
10/02/87	1330	4.15	224.50	10.66	63.93	0.00	25.07
10/02/87	1345	4.14	226.20	21.92	64.59	0.00	25.10
10/02/87	1400	4.43	174.40	18.91	65.31	0.00	25.10
10/02/87	1415	2.90	2.12	34.61	66.46	0.00	25.09
10/02/87	1430	4.62	173.60	31.05	67.49	0.00	25.09
10/02/87	1445	3.77	180.80	71.50	67.46	0.00	25.08
10/02/87	1500	3.23	76.50	61.69	68.48	0.00	25.08
10/02/87	1515	4.03	223.80	44.08	69.25	0.00	25.08
10/02/87	1530	3.82	180.50	14.26	70.10	0.00	25.07
10/02/87	1545	3.06	161.90	15.89	71.10	0.00	25.07
10/02/87	1600	3.91	56.93	17.39	71.50	0.00	25.07
10/02/87	1615	2.44	13.93	55.87	72.50	0.00	25.06
10/02/87	1630	3.76	94.50	30.70	72.70	0.00	25.06
10/02/87	1645	3.15	58.34	39.77	73.70	0.00	25.06
10/02/87	1700	4.13	93.70	16.30	73.80	0.00	25.05

RMA METEOROLOGICAL DATA  
FROM STATION M1  
07/17 - 10/08, 1987

DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
10/02/87	1715	4.12	37.70	18.97	73.70	0.00	25.04
10/02/87	1730	2.61	350.80	19.38	74.00	0.00	25.04
10/02/87	1745	3.22	75.50	46.06	75.00	0.00	25.04
10/02/87	1800	3.38	6.49	19.79	74.70	0.00	25.04
10/02/87	1815	4.50	22.46	8.81	74.60	0.00	25.04
10/02/87	1830	3.54	22.70	30.31	74.90	0.00	25.04
10/02/87	1845	2.39	75.90	28.75	75.70	0.00	25.03
10/02/87	1900	3.15	53.43	16.94	75.70	0.00	25.03
10/02/87	1915	3.91	28.44	9.15	75.50	0.00	25.03
10/02/87	1930	5.32	30.52	6.83	74.50	0.00	25.03
10/02/87	1945	4.39	26.19	9.91	74.10	0.00	25.03
10/02/87	2000	2.28	15.36	4.79	73.30	0.00	25.04
10/02/87	2015	1.27	7.75	1.23	72.00	0.00	25.04
10/02/87	2030	1.49	358.30	13.88	70.30	0.00	25.04
10/02/87	2045	0.92	7.43	1.64	68.68	0.00	25.04
10/02/87	2100	0.64	15.21	18.96	67.00	0.00	25.04
10/02/87	2115	0.23	19.91	23.96	65.90	0.00	25.04
10/02/87	2130	1.15	74.30	38.90	65.72	0.00	25.05
10/02/87	2145	0.27	347.50	0.82	64.55	0.00	25.05
10/02/87	2200	0.61	301.90	8.70	64.30	0.00	25.05
10/02/87	2215	2.72	321.60	3.15	66.76	0.00	25.05
10/02/87	2230	0.52	318.80	52.18	63.86	0.00	25.06
10/02/87	2245	0.70	7.60	66.31	63.43	0.00	25.06
10/02/87	2300	3.54	214.00	2.33	64.51	0.00	25.06
10/02/87	2315	5.83	159.00	3.09	62.73	0.00	25.08
10/02/87	2330	7.50	195.90	3.91	63.70	0.00	25.08
10/02/87	2345	6.93	222.30	2.33	62.34	0.00	25.09
10/03/87	0	5.95	216.70	7.41	60.58	0.00	25.09
10/03/87	15	6.71	206.20	2.33	60.09	0.00	25.09
10/03/87	30	7.49	200.20	1.92	58.91	0.00	25.09
10/03/87	45	8.01	197.70	1.10	57.66	0.00	25.09
10/03/87	100	8.62	190.70	1.99	56.83	0.00	25.09
10/03/87	115	5.65	181.90	5.90	55.15	0.00	25.09
10/03/87	130	9.19	191.00	1.92	56.42	0.00	25.10
10/03/87	145	9.08	186.50	2.33	54.42	0.00	25.10
10/03/87	200	8.68	194.10	0.76	54.39	0.00	25.10
10/03/87	215	8.59	192.50	1.10	53.55	0.00	25.10
10/03/87	230	7.38	195.60	1.92	51.82	0.00	25.10
10/03/87	245	6.89	204.20	3.16	52.04	0.00	25.10
10/03/87	300	7.85	207.90	1.99	52.06	0.00	25.10
10/03/87	315	7.34	203.30	1.99	51.61	0.00	25.10
10/03/87	330	8.01	206.60	0.41	51.46	0.00	25.10
10/03/87	345	6.68	205.50	1.92	50.83	0.00	25.10
10/03/87	400	7.56	201.30	1.58	51.31	0.00	25.10
10/03/87	415	6.99	204.10	1.99	50.85	0.00	25.10
10/03/87	430	7.24	209.80	1.99	49.88	0.00	25.10

RMA METEOROLOGICAL DATA  
FROM STATION M1  
07/17 - 10/08, 1987

DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
10/03/87	445	7.77	211.20	2.75	49.89	0.00	25.10
10/03/87	500	8.87	207.20	1.58	49.79	0.00	25.10
10/03/87	515	7.88	204.00	1.99	49.07	0.00	25.10
10/03/87	530	7.90	207.00	1.58	48.84	0.00	25.10
10/03/87	545	8.37	208.20	2.34	48.08	0.00	25.10
10/03/87	600	8.45	204.80	1.58	47.91	0.00	25.10
10/03/87	615	8.78	201.40	1.58	47.98	0.00	25.10
10/03/87	630	8.82	204.30	1.58	48.03	0.00	25.10
10/03/87	645	7.88	204.80	1.99	47.56	0.00	25.10
10/03/87	700	9.61	199.30	1.58	47.67	0.00	25.10
10/03/87	715	10.01	200.00	1.99	48.18	0.00	25.10
10/03/87	730	11.32	197.70	1.58	48.95	0.00	25.10
10/03/87	745	11.21	197.70	1.17	49.28	0.00	25.10
10/03/87	800	7.82	227.10	32.57	48.33	0.00	25.10
10/03/87	815	5.48	222.20	4.33	47.98	0.00	25.10
10/03/87	830	7.28	204.70	1.58	50.02	0.00	25.10
10/03/87	845	7.71	202.80	3.57	50.19	0.00	25.10
10/03/87	900	7.76	212.00	2.34	50.81	0.00	25.10
10/03/87	915	8.15	209.80	1.17	51.28	0.00	25.10
10/03/87	930	8.76	203.20	2.75	50.97	0.00	25.11
10/03/87	945	8.65	199.30	1.58	50.45	0.00	25.11
10/03/87	1000	8.20	196.40	2.68	51.98	0.00	25.11
10/03/87	1015	8.66	200.60	2.33	53.70	0.00	25.11
10/03/87	1030	9.01	209.30	4.32	55.04	0.00	25.11
10/03/87	1045	8.91	212.20	3.15	56.85	0.00	25.11
10/03/87	1100	8.02	211.00	5.90	58.68	0.00	25.11
10/03/87	1115	7.00	211.70	4.73	60.96	0.00	25.10
10/03/87	1130	8.20	214.60	4.79	62.53	0.00	25.11
10/03/87	1145	7.22	214.30	8.35	64.52	0.00	25.11
10/03/87	1200	6.74	214.00	6.36	66.47	0.00	25.11
10/03/87	1215	6.11	217.10	13.47	68.50	0.00	25.09
10/03/87	1230	5.22	208.60	8.34	70.20	0.00	25.06
10/03/87	1245	5.42	206.30	10.66	71.50	0.00	25.03
10/03/87	1300	4.68	206.70	10.65	72.90	0.00	25.10
10/03/87	1315	4.82	195.20	8.33	73.90	0.00	25.10
10/03/87	1330	4.03	184.40	24.42	75.40	0.00	25.10
10/03/87	1345	3.91	161.60	19.37	76.90	0.00	25.10
10/03/87	1400	3.78	171.70	14.25	78.50	0.00	25.07
10/03/87	1415	5.68	85.90	8.38	78.50	0.00	25.06
10/03/87	1430	4.62	88.90	72.30	78.90	0.00	25.06
10/03/87	1445	5.26	57.00	17.38	79.80	0.00	25.05
10/03/87	1500	5.14	96.90	29.17	79.90	0.00	25.05
10/03/87	1515	5.37	64.84	31.41	80.30	0.00	25.05
10/03/87	1530	6.53	99.70	8.38	80.50	0.00	25.04
10/03/87	1545	6.77	68.80	15.47	80.20	0.00	25.04
10/03/87	1600	6.10	106.00	28.01	80.30	0.00	25.03



RMA METEOROLOGICAL DATA  
FROM STATION M1  
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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
10/03/87	1615	7.32	109.30	10.43	80.70	0.00	25.03
10/03/87	1630	6.77	69.78	26.79	81.20	0.00	25.03
10/03/87	1645	5.82	47.25	25.64	81.50	0.00	25.02
10/03/87	1700	4.44	60.70	66.89	81.50	0.00	25.02
10/03/87	1715	6.10	76.40	9.61	81.50	0.00	25.01
10/03/87	1730	6.22	62.49	23.73	81.00	0.00	25.01
10/03/87	1745	4.38	71.40	22.99	81.70	0.00	24.99
10/03/87	1800	4.99	85.70	9.21	81.60	0.00	24.99
10/03/87	1815	6.05	105.80	7.23	81.30	0.00	24.99
10/03/87	1830	6.10	111.30	11.53	81.20	0.00	24.99
10/03/87	1845	3.50	124.00	9.56	81.60	0.00	25.00
10/03/87	1900	3.17	110.70	11.19	81.70	0.00	24.99
10/03/87	1915	4.89	106.70	10.38	80.90	0.00	25.00
10/03/87	1930	4.36	94.80	10.79	80.80	0.00	25.00
10/03/87	1945	5.22	139.00	8.81	80.20	0.00	25.00
10/03/87	2000	5.26	142.90	6.42	78.80	0.00	25.00
10/03/87	2015	7.66	134.00	1.30	77.60	0.00	24.99
10/03/87	2030	7.54	123.90	2.05	77.40	0.00	25.00
10/03/87	2045	7.39	135.90	2.12	76.20	0.00	24.99
10/03/87	2100	8.02	143.80	3.22	75.40	0.00	24.99
10/03/87	2115	8.77	135.70	1.64	75.60	0.00	24.99
10/03/87	2130	8.93	136.40	3.22	74.40	0.00	25.00
10/03/87	2145	10.57	145.50	1.99	73.60	0.00	25.01
10/03/87	2200	12.59	141.00	1.99	70.10	0.00	25.01
10/03/87	2215	12.79	153.80	1.58	66.67	0.00	25.01
10/03/87	2230	10.06	169.30	16.52	64.75	0.00	25.01
10/03/87	2245	8.30	199.90	2.74	63.12	0.00	25.01
10/03/87	2300	9.10	195.20	2.33	64.10	0.00	25.01
10/03/87	2315	9.67	198.00	1.17	64.88	0.00	25.01
10/03/87	2330	9.94	197.00	3.91	63.71	0.00	25.01
10/03/87	2345	9.98	194.20	2.33	62.30	0.00	25.01
10/04/87	0	9.68	192.30	1.51	61.78	0.00	25.02
10/04/87	15	10.10	193.30	2.75	61.61	0.00	25.02
10/04/87	30	8.71	183.60	3.09	59.25	0.00	25.02
10/04/87	45	9.19	186.40	1.51	59.69	0.00	25.03
10/04/87	100	7.49	188.70	2.68	58.35	0.00	25.03
10/04/87	115	8.48	195.30	2.75	58.63	0.00	25.03
10/04/87	130	5.07	210.30	7.83	57.69	0.00	25.03
10/04/87	145	6.54	210.60	3.16	57.55	0.00	25.03
10/04/87	200	8.05	210.40	5.91	56.72	0.00	25.03
10/04/87	215	10.57	201.20	1.17	57.11	0.00	25.03
10/04/87	230	9.84	203.50	1.17	59.20	0.00	25.03
10/04/87	245	9.37	206.70	2.33	59.32	0.00	25.03
10/04/87	300	10.04	204.60	1.17	60.49	0.00	25.03
10/04/87	315	9.79	203.50	4.74	59.42	0.00	25.03
10/04/87	330	8.40	203.00	1.58	57.68	0.00	25.03

RMA METEOROLOGICAL DATA  
FROM STATION M1  
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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
10/04/87	345	7.93	200.00	3.57	56.53	0.00	25.03
10/04/87	400	7.87	202.50	1.58	55.23	0.00	25.03
10/04/87	415	8.85	204.00	0.41	53.94	0.00	25.03
10/04/87	430	9.23	202.00	2.40	52.40	0.00	25.04
10/04/87	445	10.59	201.80	1.58	52.65	0.00	25.03
10/04/87	500	12.65	204.60	2.75	53.27	0.00	25.03
10/04/87	515	13.03	201.70	1.99	54.42	0.00	25.02
10/04/87	530	12.02	200.60	1.99	54.50	0.00	25.02
10/04/87	545	11.61	203.20	2.40	53.46	0.00	25.02
10/04/87	600	11.42	201.40	1.99	53.07	0.00	25.02
10/04/87	615	12.28	200.70	1.99	53.03	0.00	25.02
10/04/87	630	12.35	197.00	3.57	52.90	0.00	25.01
10/04/87	645	12.67	199.60	2.82	52.90	0.00	25.01
10/04/87	700	12.08	201.90	1.99	52.73	0.00	25.01
10/04/87	715	11.66	201.90	1.58	52.31	0.00	25.01
10/04/87	730	11.28	202.20	1.99	52.17	0.00	25.01
10/04/87	745	10.71	200.30	1.99	51.83	0.00	25.01
10/04/87	800	10.75	210.00	4.33	51.32	0.00	25.01
10/04/87	815	12.02	214.20	1.99	51.46	0.00	25.01
10/04/87	830	10.89	210.60	3.98	51.55	0.00	25.01
10/04/87	845	11.12	198.90	3.57	51.45	0.00	25.01
10/04/87	900	8.27	196.60	4.74	51.04	0.00	25.01
10/04/87	915	11.47	205.00	3.57	51.52	0.00	25.01
10/04/87	930	9.58	214.70	7.08	50.69	0.00	25.01
10/04/87	945	9.93	205.60	2.40	51.04	0.00	25.01
10/04/87	1000	7.91	219.50	5.15	51.36	0.00	25.01
10/04/87	1015	7.17	214.20	3.16	53.67	0.00	25.00
10/04/87	1030	9.75	207.70	3.91	57.00	0.00	25.00
10/04/87	1045	10.17	200.40	4.39	58.70	0.00	25.00
10/04/87	1100	9.47	202.90	3.98	60.78	0.00	24.99
10/04/87	1115	10.27	201.00	3.97	62.22	0.00	24.99
10/04/87	1130	9.78	204.00	6.37	64.24	0.00	24.99
10/04/87	1145	9.10	199.00	4.38	66.50	0.00	24.98
10/04/87	1200	7.51	202.10	6.36	69.31	0.00	24.93
10/04/87	1215	6.93	223.80	5.54	71.50	0.00	24.20
10/04/87	1230	5.64	226.40	7.11	73.10	0.00	24.57
10/04/87	1245	4.95	215.60	14.62	74.80	0.00	24.98
10/04/87	1300	4.34	198.30	30.65	76.40	0.00	24.96
10/04/87	1315	4.39	234.40	11.87	77.50	0.00	24.93
10/04/87	1330	3.17	278.20	22.51	79.10	0.00	24.45
10/04/87	1345	3.98	263.10	38.93	78.40	0.00	24.83
10/04/87	1400	3.38	346.10	14.25	79.40	0.00	24.73
10/04/87	1415	6.25	293.00	26.78	78.80	0.00	24.68
10/04/87	1430	4.43	251.40	54.66	79.20	0.00	22.48
10/04/87	1445	4.66	298.30	20.51	78.80	0.00	21.87
10/04/87	1500	5.40	291.90	38.58	79.10	0.00	22.08

RMA METEOROLOGICAL DATA  
FROM STATION M1  
07/17 - 10/08, 1987

DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
10/04/87	1515	5.78	269.90	12.27	79.00	0.00	22.06
10/04/87	1530	5.23	298.80	25.98	79.10	0.00	22.14
10/04/87	1545	5.88	321.30	22.51	79.00	0.00	21.92
10/04/87	1600	3.98	330.40	60.58	78.90	0.00	22.06
10/04/87	1615	5.44	282.80	18.97	80.40	0.00	21.71
10/04/87	1630	4.97	299.20	34.25	80.00	0.00	21.89
10/04/87	1645	5.37	302.60	13.92	80.30	0.00	21.31
10/04/87	1700	7.21	310.80	31.11	81.20	0.00	21.61
10/04/87	1715	4.94	339.50	22.16	81.20	0.00	22.01
10/04/87	1730	3.80	351.90	25.98	80.10	0.00	21.96
10/04/87	1745	3.47	324.70	51.17	80.10	0.00	21.80
10/04/87	1800	7.08	316.50	8.39	80.50	0.00	21.15
10/04/87	1815	6.02	325.40	18.97	80.40	0.00	20.95
10/04/87	1830	6.66	324.00	9.56	80.70	0.00	21.02
10/04/87	1845	5.48	305.60	12.29	80.50	0.00	21.45
10/04/87	1900	3.29	295.10	15.43	80.00	0.00	21.99
10/04/87	1915	4.49	31.27	7.24	78.70	0.00	22.58
10/04/87	1930	6.05	58.05	4.44	76.90	0.00	24.68
10/04/87	1945	6.37	73.90	4.38	76.70	0.00	24.88
10/04/87	2000	4.89	85.50	3.21	75.20	0.00	24.88
10/04/87	2015	5.57	83.20	3.62	75.70	0.00	24.88
10/04/87	2030	6.92	91.80	1.71	75.20	0.00	24.87
10/04/87	2045	6.03	89.50	2.05	73.60	0.00	24.87
10/04/87	2100	5.04	84.00	2.81	73.60	0.00	24.87
10/04/87	2115	2.76	82.90	2.46	72.00	0.00	24.88
10/04/87	2130	4.11	318.30	19.73	71.70	0.00	24.89
10/04/87	2145	3.71	282.60	8.29	71.70	0.00	24.89
10/04/87	2200	3.24	269.10	18.50	67.14	0.00	24.89
10/04/87	2215	1.52	186.60	5.89	67.41	0.00	24.89
10/04/87	2230	5.12	201.60	3.15	69.36	0.00	24.88
10/04/87	2245	7.94	220.00	4.73	69.05	0.00	24.89
10/04/87	2300	5.42	226.30	3.98	68.00	0.00	24.89
10/04/87	2315	7.04	229.80	3.15	67.40	0.00	24.90
10/04/87	2330	6.94	227.90	3.98	65.84	0.00	24.90
10/04/87	2345	4.83	229.60	7.06	64.88	0.00	24.90
10/05/87	0	3.72	218.20	5.49	63.90	0.00	24.91
10/05/87	15	6.87	82.50	7.89	62.04	0.00	24.92
10/05/87	30	9.34	90.40	2.74	63.80	0.00	24.93
10/05/87	45	8.25	91.50	3.57	60.91	0.00	24.93
10/05/87	100	7.80	81.00	2.33	59.17	0.00	24.93
10/05/87	115	9.33	105.50	2.75	63.35	0.00	24.93
10/05/87	130	9.34	106.80	1.58	62.31	0.00	24.93
10/05/87	145	7.17	188.50	10.23	58.59	0.00	24.93
10/05/87	200	6.91	221.70	3.50	57.45	0.00	24.94
10/05/87	215	4.96	213.80	2.33	57.31	0.00	24.93
10/05/87	230	4.36	170.10	2.68	57.88	0.00	24.93

RMA METEOROLOGICAL DATA  
FROM STATION M1  
07/17 - 10/08, 1987

DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
10/05/87	245	4.24	123.40	13.39	56.35	0.00	24.94
10/05/87	300	2.98	157.90	25.54	54.36	0.00	24.94
10/05/87	315	1.04	329.00	56.44	53.61	0.00	24.95
10/05/87	330	3.35	340.30	13.39	52.02	0.00	24.96
10/05/87	345	4.63	32.00	9.41	52.22	0.00	24.99
10/05/87	400	4.66	10.21	3.92	53.34	0.00	24.99
10/05/87	415	6.47	351.10	7.49	54.13	0.00	25.00
10/05/87	430	9.23	334.60	3.98	54.32	0.00	25.01
10/05/87	445	10.73	337.70	1.58	52.84	0.00	25.01
10/05/87	500	9.43	338.10	1.58	52.06	0.00	25.02
10/05/87	515	8.20	330.90	4.40	51.58	0.00	25.02
10/05/87	530	7.08	327.10	4.74	51.69	0.00	25.03
10/05/87	545	8.38	332.80	2.34	51.05	0.00	25.03
10/05/87	600	8.38	338.50	1.99	49.93	0.00	25.04
10/05/87	615	4.14	335.80	3.57	47.69	0.00	25.04
10/05/87	630	6.71	338.50	1.58	49.42	0.00	25.05
10/05/87	645	6.32	344.00	8.25	49.65	0.00	25.06
10/05/87	700	4.05	357.70	2.75	49.27	0.00	25.06
10/05/87	715	5.44	18.49	2.34	48.52	0.00	25.06
10/05/87	730	4.09	11.99	2.75	47.00	0.00	25.07
10/05/87	745	3.49	26.65	4.67	45.27	0.00	25.08
10/05/87	800	2.97	22.73	1.58	45.15	0.00	25.09
10/05/87	815	4.75	23.39	2.68	44.72	0.00	25.09
10/05/87	830	4.32	15.79	1.17	44.28	0.00	25.10
10/05/87	845	4.64	338.30	12.93	44.23	0.00	25.10
10/05/87	900	6.21	295.50	1.93	44.20	0.00	25.11
10/05/87	915	5.27	304.20	4.26	43.59	0.00	25.11
10/05/87	930	4.07	322.20	3.09	43.81	0.00	25.11
10/05/87	945	3.17	343.30	14.92	43.82	0.00	25.11
10/05/87	1000	2.31	1.16	7.08	43.89	0.00	25.11
10/05/87	1015	2.10	359.10	11.34	44.76	0.00	25.12
10/05/87	1030	2.48	358.90	15.32	45.75	0.00	25.12
10/05/87	1045	2.70	19.56	16.55	46.80	0.00	25.12
10/05/87	1100	2.97	47.12	10.98	47.86	0.00	25.12
10/05/87	1115	3.04	98.70	25.04	48.71	0.00	25.12
10/05/87	1130	3.83	97.70	20.44	49.45	0.00	25.12
10/05/87	1145	5.18	65.27	16.11	50.47	0.00	25.12
10/05/87	1200	6.77	44.33	17.27	50.43	0.00	25.12
10/05/87	1215	5.38	43.73	12.13	51.19	0.00	25.12
10/05/87	1230	4.10	98.50	15.75	52.23	0.00	25.12
10/05/87	1245	5.43	80.20	13.01	52.17	0.00	25.12
10/05/87	1300	3.09	98.30	52.58	53.37	0.00	25.10
10/05/87	1315	4.68	75.70	16.90	53.34	0.00	25.10
10/05/87	1330	5.53	96.20	25.94	53.65	0.00	25.10
10/05/87	1345	3.44	75.20	76.50	54.59	0.00	25.09
10/05/87	1400	5.13	110.90	22.02	54.41	0.00	25.08

RMA METEOROLOGICAL DATA  
FROM STATION M1  
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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
10/05/87	1415	4.82	88.80	18.94	55.22	0.00	25.07
10/05/87	1430	5.04	47.23	35.77	55.47	0.00	25.07
10/05/87	1445	7.22	59.56	17.64	56.06	0.00	25.06
10/05/87	1500	3.78	109.70	40.48	56.60	0.00	25.06
10/05/87	1515	4.61	106.00	29.13	56.95	0.00	25.05
10/05/87	1530	4.20	130.70	10.73	58.22	0.00	25.04
10/05/87	1545	3.91	111.00	31.85	58.84	0.00	25.03
10/05/87	1600	4.50	53.51	11.48	59.30	0.00	25.01
10/05/87	1615	3.27	51.56	50.30	60.11	0.00	25.01
10/05/87	1630	5.61	68.95	26.32	59.90	0.00	25.00
10/05/87	1645	4.27	119.70	32.27	60.08	0.00	25.00
10/05/87	1700	3.28	39.45	37.39	61.02	0.00	24.99
10/05/87	1715	3.17	139.10	46.42	62.11	0.00	24.98
10/05/87	1730	5.71	166.80	15.04	61.16	0.00	24.96
10/05/87	1745	2.88	169.70	71.50	62.36	0.00	24.97
10/05/87	1800	3.40	52.23	21.33	62.98	0.00	24.97
10/05/87	1815	3.41	109.90	24.07	62.52	0.00	24.97
10/05/87	1830	4.27	78.00	16.55	62.49	0.00	24.97
10/05/87	1845	4.48	64.12	15.46	62.51	0.00	24.97
10/05/87	1900	3.19	61.85	31.47	62.80	0.00	24.98
10/05/87	1915	2.44	34.18	9.17	63.30	0.00	24.98
10/05/87	1930	1.89	120.70	28.74	63.13	0.00	24.98
10/05/87	1945	1.56	70.80	22.52	63.26	0.00	24.97
10/05/87	2000	1.64	101.50	9.99	62.30	0.00	24.97
10/05/87	2015	1.28	116.80	20.13	60.75	0.00	24.97
10/05/87	2030	1.65	120.80	7.53	59.71	0.00	24.97
10/05/87	2045	1.67	107.80	4.79	58.75	0.00	24.97
10/05/87	2100	1.41	96.30	17.68	57.48	0.00	24.98
10/05/87	2115	2.42	64.23	5.90	56.35	0.00	24.98
10/05/87	2130	2.25	72.20	3.15	55.99	0.00	24.99
10/05/87	2145	3.47	76.60	4.73	56.10	0.00	25.00
10/05/87	2200	3.14	62.64	5.08	56.41	0.00	25.00
10/05/87	2215	6.38	83.40	3.09	55.05	0.00	25.01
10/05/87	2230	7.69	98.40	2.40	53.77	0.00	25.01
10/05/87	2245	8.66	104.00	1.58	54.19	0.00	25.01
10/05/87	2300	8.80	104.70	1.58	53.03	0.00	25.02
10/05/87	2315	8.83	109.10	1.58	52.39	0.00	25.03
10/05/87	2330	8.49	120.60	1.58	51.72	0.00	25.03
10/05/87	2345	10.60	134.30	1.58	50.68	0.00	25.04
10/06/87	0	10.56	134.20	1.92	49.05	0.00	25.04
10/06/87	15	10.50	131.30	3.16	46.76	0.00	25.04
10/06/87	30	6.92	173.00	2.34	44.44	0.00	25.04
10/06/87	45	7.56	172.70	1.92	45.81	0.00	25.04
10/06/87	100	8.94	164.90	2.34	48.68	0.00	25.04
10/06/87	115	8.66	175.80	5.09	48.95	0.00	25.04
10/06/87	130	8.28	184.90	3.92	49.74	0.00	25.04

RMA METEOROLOGICAL DATA  
FROM STATION M1  
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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
10/06/87	145	8.85	179.90	3.92	50.53	0.00	25.04
10/06/87	200	9.36	183.80	1.92	48.13	0.00	25.04
10/06/87	215	9.38	188.30	1.92	46.94	0.00	25.04
10/06/87	230	8.23	191.20	1.92	46.82	0.00	25.04
10/06/87	245	8.56	194.50	1.51	46.31	0.00	25.04
10/06/87	300	8.37	191.40	3.51	46.30	0.00	25.04
10/06/87	315	9.03	193.10	1.93	45.91	0.00	25.04
10/06/87	330	7.69	190.70	1.93	44.61	0.00	25.04
10/06/87	345	4.96	181.50	53.27	43.20	0.00	25.04
10/06/87	400	4.75	165.80	2.68	42.94	0.00	25.04
10/06/87	415	4.66	167.10	5.02	41.75	0.00	25.04
10/06/87	430	5.57	142.20	5.43	40.40	0.00	25.05
10/06/87	445	2.11	174.60	15.20	39.94	0.00	25.05
10/06/87	500	3.20	115.70	7.02	40.83	0.00	25.05
10/06/87	515	6.12	164.50	1.86	43.14	0.00	25.04
10/06/87	530	5.20	173.40	3.10	43.60	0.00	25.03
10/06/87	545	3.64	140.80	72.40	37.68	0.00	25.03
10/06/87	600	1.21	315.60	3.85	36.38	0.00	25.03
10/06/87	615	1.15	331.70	10.53	36.76	0.00	25.03
10/06/87	630	1.87	270.90	11.29	36.54	0.00	25.03
10/06/87	645	1.39	326.40	14.86	36.21	0.00	25.03
10/06/87	700	1.80	343.70	3.85	36.91	0.00	25.03
10/06/87	715	2.76	347.90	4.61	36.80	0.00	25.03
10/06/87	730	1.63	352.10	3.85	36.01	0.00	25.03
10/06/87	745	1.04	13.27	14.04	35.49	0.00	25.03
10/06/87	800	1.35	1.36	9.36	35.92	0.00	25.03
10/06/87	815	0.74	12.83	14.46	36.32	0.00	25.03
10/06/87	830	0.88	46.08	8.19	36.01	0.00	25.03
10/06/87	845	1.31	178.10	1.86	36.20	0.00	25.03
10/06/87	900	4.01	183.10	3.03	37.21	0.00	25.03
10/06/87	915	5.72	191.60	2.27	38.14	0.00	25.03
10/06/87	930	7.78	195.00	1.10	39.20	0.00	25.03
10/06/87	945	6.70	193.90	1.86	40.64	0.00	25.03
10/06/87	1000	6.70	190.00	1.93	40.63	0.00	25.03
10/06/87	1015	6.50	184.60	3.51	41.68	0.00	25.02
10/06/87	1030	6.22	190.70	3.98	43.88	0.00	25.02
10/06/87	1045	5.40	205.70	6.73	45.87	0.00	25.02
10/06/87	1100	4.55	216.60	7.48	47.53	0.00	25.01
10/06/87	1115	3.76	226.80	16.12	48.95	0.00	25.01
10/06/87	1130	3.00	231.10	17.69	50.58	0.00	25.01
10/06/87	1145	2.87	244.90	40.43	52.05	0.00	25.00
10/06/87	1200	2.87	247.60	24.38	53.12	0.00	25.00
10/06/87	1215	2.56	237.10	48.26	54.81	0.00	25.00
10/06/87	1230	2.57	249.80	49.46	55.85	0.00	25.00
10/06/87	1245	3.35	223.40	28.72	56.34	0.00	25.00
10/06/87	1300	3.59	230.00	13.74	57.33	0.00	25.00

RMA METEOROLOGICAL DATA  
FROM STATION M1  
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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
10/06/87	1315	3.41	214.00	36.98	58.51	0.00	25.00
10/06/87	1330	2.98	309.50	18.11	59.78	0.00	25.00
10/06/87	1345	2.75	296.70	45.97	61.00	0.00	24.99
10/06/87	1400	4.05	230.40	43.98	61.47	0.00	24.99
10/06/87	1415	2.10	229.80	47.12	64.01	0.00	24.98
10/06/87	1430	2.56	255.80	41.71	64.13	0.00	24.97
10/06/87	1445	3.08	10.07	31.12	65.11	0.00	24.97
10/06/87	1500	5.81	346.40	36.58	65.00	0.00	24.98
10/06/87	1515	5.09	42.80	35.76	65.42	0.00	24.97
10/06/87	1530	5.28	346.90	28.66	65.55	0.00	24.96
10/06/87	1545	7.01	50.41	30.65	66.02	0.00	24.96
10/06/87	1600	5.94	45.80	21.30	66.04	0.00	24.95
10/06/87	1615	5.40	33.26	20.89	66.69	0.00	24.95
10/06/87	1630	6.68	74.70	30.66	66.26	0.00	24.95
10/06/87	1645	7.28	48.82	10.66	66.81	0.00	24.95
10/06/87	1700	9.53	38.42	15.78	66.30	0.00	24.95
10/06/87	1715	6.51	43.44	33.01	66.51	0.00	24.94
10/06/87	1730	4.94	62.98	25.15	66.77	0.00	24.94
10/06/87	1745	8.23	33.33	13.81	66.83	0.00	24.94
10/06/87	1800	5.14	25.33	44.37	67.01	0.00	24.93
10/06/87	1815	6.08	32.21	18.53	67.20	0.00	24.93
10/06/87	1830	4.90	30.21	13.47	67.13	0.00	24.94
10/06/87	1845	5.93	49.45	11.42	67.05	0.00	24.94
10/06/87	1900	6.39	44.49	18.47	67.00	0.00	24.94
10/06/87	1915	6.87	68.14	8.41	66.42	0.00	24.94
10/06/87	1930	4.96	57.24	4.86	66.77	0.00	24.94
10/06/87	1945	6.75	39.24	6.02	65.89	0.00	24.94
10/06/87	2000	7.06	36.92	3.29	64.81	0.00	24.94
10/06/87	2015	6.82	41.86	2.12	63.98	0.00	24.96
10/06/87	2030	5.04	47.33	1.64	63.38	0.00	24.96
10/06/87	2045	3.45	60.55	5.21	61.86	0.00	24.96
10/06/87	2100	5.34	67.16	2.81	60.93	0.00	24.97
10/06/87	2115	5.89	81.70	4.39	60.50	0.00	24.98
10/06/87	2130	6.38	95.80	1.17	59.52	0.00	24.98
10/06/87	2145	6.92	94.30	1.17	59.36	0.00	25.00
10/06/87	2200	6.74	94.00	14.55	58.48	0.00	25.00
10/06/87	2215	8.28	121.60	1.17	56.68	0.00	25.00
10/06/87	2230	8.95	128.70	1.92	55.94	0.00	25.00
10/06/87	2245	9.43	125.50	1.99	55.21	0.00	25.01
10/06/87	2300	8.62	111.20	5.84	56.35	0.00	25.02
10/06/87	2315	9.41	97.20	1.99	52.48	0.00	25.03
10/06/87	2330	8.80	100.40	1.58	50.64	0.00	25.03
10/06/87	2345	7.48	104.30	1.99	49.88	0.00	25.04
10/07/87	0	3.81	151.70	22.74	49.29	0.00	25.04
10/07/87	15	2.43	184.20	28.65	49.17	0.00	25.05
10/07/87	30	2.60	164.10	19.24	49.62	0.00	25.05

RMA METEOROLOGICAL DATA  
FROM STATION M1  
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DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
10/07/87	45	4.49	257.90	8.24	49.97	0.00	25.06
10/07/87	100	4.24	263.30	34.50	48.83	0.00	25.07
10/07/87	115	2.30	247.40	10.24	48.35	0.00	25.07
10/07/87	130	1.76	240.60	10.24	48.36	0.00	25.07
10/07/87	145	1.44	273.30	4.33	49.24	0.00	25.07
10/07/87	200	1.79	305.30	3.09	50.59	0.00	25.07
10/07/87	215	2.02	333.20	3.92	50.89	0.00	25.07
10/07/87	230	1.47	348.40	14.92	50.65	0.00	25.07
10/07/87	245	2.08	32.43	16.09	49.73	0.00	25.07
10/07/87	300	2.50	68.41	15.67	48.40	0.00	25.07
10/07/87	315	3.08	108.00	5.84	48.63	0.00	25.07
10/07/87	330	5.40	129.70	1.51	48.16	0.00	25.06
10/07/87	345	6.46	141.40	1.51	48.37	0.00	25.06
10/07/87	400	8.05	152.80	3.85	46.58	0.00	25.06
10/07/87	415	9.23	161.80	3.51	43.14	0.00	25.05
10/07/87	430	10.63	151.10	1.51	39.20	0.00	25.05
10/07/87	445	11.98	152.60	3.10	39.29	0.00	25.04
10/07/87	500	9.68	163.60	1.51	40.30	0.00	25.03
10/07/87	515	7.95	166.50	2.27	39.09	0.00	25.03
10/07/87	530	7.49	164.50	2.27	38.90	0.00	25.03
10/07/87	545	9.11	164.60	5.78	40.18	0.00	25.02
10/07/87	600	9.85	163.60	6.95	39.78	0.00	25.01
10/07/87	615	8.62	160.70	2.68	38.69	0.00	25.00
10/07/87	630	8.28	160.30	3.85	39.38	0.00	24.99
10/07/87	645	7.16	165.00	5.02	40.12	0.00	24.99
10/07/87	700	8.06	153.10	4.61	38.69	0.00	24.99
10/07/87	715	7.30	167.00	5.02	39.78	0.00	24.99
10/07/87	730	6.24	177.90	5.78	42.54	0.00	24.98
10/07/87	745	2.31	189.80	21.47	37.95	0.00	24.98
10/07/87	800	2.67	259.10	36.75	34.27	0.00	24.98
10/07/87	815	1.91	225.50	5.71	37.51	0.00	24.98
10/07/87	830	4.04	192.70	2.20	40.01	0.00	24.97
10/07/87	845	4.34	199.60	2.27	41.29	0.00	24.97
10/07/87	900	6.17	210.90	1.45	41.15	0.00	24.97
10/07/87	915	6.57	218.00	3.44	40.41	0.00	24.97
10/07/87	930	8.34	203.90	1.03	39.44	0.00	24.96
10/07/87	945	6.38	204.20	4.27	39.29	0.00	24.96
10/07/87	1000	6.18	202.10	3.85	40.21	0.00	24.95
10/07/87	1015	6.49	205.30	4.67	42.40	0.00	24.95
10/07/87	1030	5.18	221.80	7.83	45.04	0.00	24.94
10/07/87	1045	5.86	245.00	5.91	47.01	0.00	24.94
10/07/87	1100	5.22	248.80	11.40	48.36	0.00	24.93
10/07/87	1115	4.19	255.30	9.40	49.99	0.00	24.93
10/07/87	1130	3.09	251.80	11.80	50.75	0.00	24.93
10/07/87	1145	3.67	263.50	11.45	51.22	0.00	24.92
10/07/87	1200	3.80	281.00	21.26	52.10	0.00	24.91



RMA METEOROLOGICAL DATA  
FROM STATION M1  
07/17 - 10/08, 1987

DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
10/07/87	1215	4.39	265.60	6.72	53.12	0.00	24.91
10/07/87	1230	3.75	258.00	7.95	54.04	0.00	24.91
10/07/87	1245	2.96	256.00	21.65	54.50	0.00	24.91
10/07/87	1300	2.79	232.40	28.29	55.10	0.00	24.89
10/07/87	1315	2.17	253.60	34.18	56.31	0.00	24.89
10/07/87	1330	2.27	252.10	36.91	57.55	0.00	24.89
10/07/87	1345	2.28	231.10	20.88	58.46	0.00	24.89
10/07/87	1400	2.69	171.50	19.30	59.83	0.00	24.88
10/07/87	1415	3.50	176.80	35.79	61.36	0.00	24.86
10/07/87	1430	4.76	190.90	17.37	63.33	0.00	24.86
10/07/87	1445	3.90	189.10	29.95	65.42	0.00	24.85
10/07/87	1500	4.23	154.60	18.94	68.35	0.00	24.84
10/07/87	1515	5.53	158.70	34.23	70.40	0.00	24.83
10/07/87	1530	5.11	125.90	20.90	72.30	0.00	24.82
10/07/87	1545	7.01	100.90	17.00	72.90	0.00	24.80
10/07/87	1600	7.39	98.40	27.18	73.80	0.00	24.79
10/07/87	1615	5.89	104.70	22.87	75.00	0.00	24.79
10/07/87	1630	8.29	120.50	14.68	74.90	0.00	24.78
10/07/87	1645	5.99	124.30	26.01	75.60	0.00	24.77
10/07/87	1700	6.72	141.00	13.52	76.20	0.00	24.77
10/07/87	1715	7.46	120.50	27.99	77.30	0.00	24.75
10/07/87	1730	9.76	115.40	10.38	76.50	0.00	24.74
10/07/87	1745	5.38	135.50	27.17	76.60	0.00	24.73
10/07/87	1800	4.79	108.80	12.70	76.20	0.00	24.73
10/07/87	1815	6.89	94.30	8.40	77.00	0.00	24.73
10/07/87	1830	6.02	91.90	22.07	77.90	0.00	24.73
10/07/87	1845	7.53	90.50	13.05	77.30	0.00	24.73
10/07/87	1900	6.56	128.00	7.99	77.50	0.00	24.72
10/07/87	1915	6.02	122.30	9.57	77.70	0.00	24.72
10/07/87	1930	4.78	130.30	13.87	77.70	0.00	24.72
10/07/87	1945	3.13	133.10	6.36	76.80	0.00	24.71
10/07/87	2000	3.35	146.80	5.20	76.10	0.00	24.72
10/07/87	2015	1.46	122.80	9.51	75.00	0.00	24.72
10/07/87	2030	0.44	300.50	27.09	72.10	0.00	24.72
10/07/87	2045	0.85	66.68	5.20	69.99	0.00	24.72
10/07/87	2100	0.81	149.80	18.89	68.33	0.00	24.72
10/07/87	2115	4.34	201.20	4.38	68.28	0.00	24.72
10/07/87	2130	8.14	193.60	10.28	67.13	0.00	24.72
10/07/87	2145	12.18	190.10	3.56	65.38	0.00	24.72
10/07/87	2200	9.69	203.30	3.22	64.62	0.00	24.73
10/07/87	2215	9.56	219.50	4.80	64.24	0.00	24.74
10/07/87	2230	11.01	211.20	3.98	64.34	0.00	24.74
10/07/87	2245	9.28	213.40	4.73	62.25	0.00	24.74
10/07/87	2300	10.22	204.20	6.31	61.01	0.00	24.74
10/07/87	2315	7.81	207.20	14.95	58.55	0.00	24.74
10/07/87	2330	8.08	244.80	21.20	58.14	0.00	24.75

RMA METEOROLOGICAL DATA  
FROM STATION M1  
07/17 - 10/08, 1987

DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
10/07/87	2345	6.84	219.20	7.48	57.74	0.00	24.75
10/08/87	0	7.35	188.00	2.75	56.45	0.00	24.75
10/08/87	15	9.09	196.50	1.58	55.87	0.00	24.75
10/08/87	30	9.34	197.80	1.58	54.92	0.00	24.76
10/08/87	45	7.76	184.50	4.39	54.38	0.00	24.76
10/08/87	100	9.22	189.40	1.92	55.00	0.00	24.76
10/08/87	115	10.06	196.20	1.92	55.15	0.00	24.76
10/08/87	130	10.98	199.80	1.99	54.79	0.00	24.76
10/08/87	145	9.98	202.10	1.99	53.63	0.00	24.76
10/08/87	200	10.52	206.20	1.92	53.06	0.00	24.76
10/08/87	215	10.08	204.30	5.15	52.50	0.00	24.76
10/08/87	230	7.09	208.60	5.56	52.82	0.00	24.76
10/08/87	245	8.24	195.50	1.99	52.37	0.00	24.76
10/08/87	300	8.73	199.60	3.98	51.09	0.00	24.75
10/08/87	315	9.65	211.80	5.84	49.92	0.00	24.74
10/08/87	330	8.32	205.30	5.50	49.80	0.00	24.74
10/08/87	345	7.22	209.60	5.50	49.22	0.00	24.74
10/08/87	400	9.42	208.50	4.33	49.83	0.00	24.74
10/08/87	415	7.55	192.00	5.15	51.03	0.00	24.74
10/08/87	430	8.56	212.50	4.74	49.68	0.00	24.74
10/08/87	445	9.25	200.10	3.16	50.55	0.00	24.74
10/08/87	500	8.73	200.50	4.74	50.30	0.00	24.74
10/08/87	515	8.34	206.60	3.57	50.07	0.00	24.74
10/08/87	530	9.90	202.30	1.99	51.48	0.00	24.74
10/08/87	545	8.57	205.90	6.66	51.78	0.00	24.74
10/08/87	600	8.14	217.30	3.92	51.14	0.00	24.74
10/08/87	615	7.25	207.00	3.57	51.47	0.00	24.74
10/08/87	630	6.95	201.10	1.58	51.77	0.00	24.74
10/08/87	645	9.45	195.90	1.17	52.62	0.00	24.74
10/08/87	700	10.03	195.50	1.99	53.90	0.00	24.74
10/08/87	715	11.14	190.70	1.58	53.23	0.00	24.74
10/08/87	730	11.21	190.40	1.99	52.42	0.00	24.74
10/08/87	745	10.54	191.10	1.99	52.19	0.00	24.74
10/08/87	800	10.14	196.70	2.34	52.25	0.00	24.74
10/08/87	815	11.50	194.60	3.16	52.92	0.00	24.74
10/08/87	830	11.47	199.40	2.34	52.55	0.00	24.74
10/08/87	845	10.06	202.60	3.16	52.82	0.00	24.74
10/08/87	900	7.19	227.80	7.07	51.12	0.00	24.74
10/08/87	915	8.18	214.10	3.98	51.70	0.00	24.74
10/08/87	930	5.36	208.10	71.80	52.39	0.00	24.74
10/08/87	945	3.01	135.70	10.23	52.65	0.00	24.76
10/08/87	1000	5.50	131.20	10.64	54.16	0.00	24.76
10/08/87	1015	7.20	177.90	5.15	57.09	0.00	24.76
10/08/87	1030	6.54	177.80	2.75	58.23	0.00	24.76
10/08/87	1045	6.09	176.10	4.32	60.10	0.00	24.77
10/08/87	1100	5.77	191.50	12.21	61.98	0.00	24.76

RMA METEOROLOGICAL DATA  
FROM STATION M1  
07/17 - 10/08, 1987

DATE	TIME	WIND SPEED (MPH)	WIND DIR	SIGMA THETA	TEMP (F)	PRECIP (IN)	PRESS (IN HG)
10/08/87	1115	3.22	190.90	21.67	64.31	0.00	24.76
10/08/87	1130	2.25	239.20	18.16	66.26	0.00	24.76
10/08/87	1145	2.12	78.60	35.42	67.35	0.00	24.75
10/08/87	1200	1.56	7.23	24.45	68.45	0.00	24.71
10/08/87	1215	4.20	13.01	15.81	67.66	0.00	24.47
10/08/87	1230	3.19	352.90	35.45	67.80	0.00	24.67
10/08/87	1245	6.13	21.74	8.41	68.36	0.00	24.73
10/08/87	1300	9.76	24.67	21.62	67.43	0.00	24.78
10/08/87	1315	8.15	40.62	11.15	67.55	0.00	24.78
10/08/87	1330	11.94	28.22	11.14	69.38	0.00	24.75
10/08/87	1345	14.39	34.63	10.39	69.90	0.00	24.75
10/08/87	1400	13.55	31.62	6.77	70.10	0.00	24.75
10/08/87	1415	11.72	36.52	14.63	70.90	0.00	24.73
10/08/87	1430	13.55	65.23	13.46	70.90	0.00	24.74
10/08/87	1445	13.62	56.33	18.93	71.30	0.00	24.74
10/08/87	1500	12.10	42.69	9.91	71.80	0.00	24.75
10/08/87	1515	13.94	48.96	9.09	72.00	0.00	24.74
10/08/87	1530	11.58	38.35	9.09	72.70	0.00	24.73
10/08/87	1545	9.65	52.55	17.77	72.60	0.00	24.73

**APPENDIX D.2**  
**DENVER METEOROLOGICAL DATA**

## SUMMARY OF MONTHLY CLIMATIC DATA FOR DENVER WFO AP

COLORADO

FOR YEARS 1948-1986

SUBSTATION NO. 52220 DIVISION 4

		LATITUDE - 39 45				LONGITUDE - 104 52				ELEVATION - 5280 FEET															
		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN											
MONTHLY MEAN MAXIMUM TEMP (F)	AVE.	42.9	46.8	51.4	61.1	70.3	81.2	87.7	85.8	77.3	66.4	52.3	45.5	64.1											
	MAX.	54.7	59.6	61.2	70.2	79.1	88.6	92.4	89.9	82.3	76.7	64.9	55.0	67.8											
	YEAR	1986	1954	1972	1981	1974	1956	1964	1962	1977	1950	1949	1980	1954											
	MIN.	28.6	35.8	40.4	51.7	62.5	72.8	81.8	81.2	68.1	49.5	40.4	28.2	60.4											
	YEAR	1949	1960	1965	1983	1983	1967	1950	1963	1965	1969	1985	1983	1983											
YEARS OF RECORD		39	39	39	39	39	39	39	39	39	39	39	39	39											
MONTHLY MEAN MINIMUM TEMP (F)	AVE.	16.0	20.1	25.1	34.1	43.7	52.6	58.8	57.2	48.0	37.0	25.2	18.6	36.4											
	MAX.	26.3	27.8	33.1	42.5	49.1	58.2	62.9	61.1	54.2	43.1	32.4	27.4	40.7											
	YEAR	1953	1954	1986	1981	1958	1956	1980	1983	1981	1950	1949	1980	1981											
	MIN.	4.0	13.8	17.5	28.1	39.2	48.3	54.7	53.4	42.4	28.4	19.1	6.7	34.0											
	YEAR	1949	1960	1965+	1968	1968+	1951	1972	1974	1971	1969	1985	1983	1968											
YEARS OF RECORD		39	39	39	39	39	39	39	39	39	39	39	39	39											
MONTHLY MEAN AVERAGE TEMP (F)	AVE.	29.5	33.5	38.3	47.6	57.0	66.9	73.3	71.6	62.7	51.7	38.8	32.1	50.2											
	MAX.	40.3	43.7	47.1	56.4	61.7	73.4	76.9	74.4	68.2	59.9	48.7	41.2	54.0											
	YEAR	1986	1954	1986	1981	1958	1956	1966	1983	1981	1950	1949	1980	1981											
	MIN.	16.3	24.8	29.0	41.0	51.4	60.6	68.9	68.1	55.7	39.0	29.8	17.5	48.3											
	YEAR	1949	1960	1965	1983	1983	1967	1950	1968	1965	1969	1985	1983	1951											
YEARS OF RECORD		39	39	39	39	39	39	39	39	39	39	39	39	39											
DEGREE DAYS (BASE 65F)	AVE.	1080.1	880.3	816.5	520.1	252.4	59.8	5.2	7.7	127.8	412.1	786.1	1014.6	5962.7											
	MAX.	1450	1159	1108	712	419	164	42	35	296	801	1051	1469	6715											
	YEAR	1979	1960	1965	1983	1983	1951	1972	1968	1965	1969	1985	1983	1983											
	MIN.	758	589	548	260	137	0	0	0	19	229	570	731	4784											
	YEAR	1986	1954	1986	1981	1977+	1977+	1986+	1986+	1981	1963	1981	1980	1981											
YEARS OF RECORD		36	36	36	36	36	36	36	36	36	36	36	36	36											
NO DAYS MAX TEMP GTR OR EQ 90F	AVE.	0.0	0.0	0.0	0.0	0.3	6.3	14.3	9.4	2.5	0.0	0.0	0.0	33.3											
	MAX.	0	0	0	0	2	15	27	22	7	0	0	0	52											
	YEAR	1948	1948	1948	1948	1974+	1952	1964	1960	1978	1948	1948	1948	1978											
	MIN.	0	0	0	0	0	0	2	1	0	0	0	0	4											
	YEAR	1986+	1986+	1986+	1986+	1986+	1972+	1967	1984+	1986+	1986+	1986+	1986+	1967											
YEARS OF RECORD		38	38	38	38	38	39	39	39	39	39	38	38	38											
NO DAYS MAX TEMP LESS OR EQ 32F	AVE.	7.0	4.5	3.2	0.5	0.0	0.0	0.0	0.0	0.0	0.2	2.6	4.6	22.8											
	MAX.	20	11	11	4	0	0	0	0	1	2	10	14	41											
	YEAR	1949	1955	1969	1983	1948	1948	1948	1948	1985	1972+	1985	1983	1983											
	MIN.	0	0	0	0	0	0	0	0	0	0	0	0	10											
	YEAR	1986+	1970+	1986+	1986+	1986+	1986+	1986+	1986+	1986+	1985+	1984+	1976+	1981											
YEARS OF RECORD		39	39	39	38	38	38	38	38	38	38	39	39	38											
NO DAYS MIN TEMP LESS OR EQ 32F	AVE.	29.5	26.0	25.1	12.2	1.6	0.0	0.0	0.0	0.8	7.9	24.0	29.2	156.5											
	MAX.	31	29	30	23	7	1	0	0	5	18	30	31	187											
	YEAR	1985+	1984+	1970+	1968	1967	1951	1948	1948	1985	1984+	1972	1986+	1984											
	MIN.	21	20	15	2	0	0	0	0	0	1	13	22	115											
	YEAR	1953	1986	1978	1981	1986+	1986+	1986+	1986+	1982+	1950	1981	1977	1961											
YEARS OF RECORD		39	39	39	39	39	38	38	38	38	39	39	39	38											
NO DAYS MIN TEMP LESS OR EQ 0 F	AVE.	3.7	1.8	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.5	2.2	8.9												
	MAX.	13	7	5	1	0	0	0	0	0	4	11	20												
	YEAR	1962	1985+	1948	1975	1948	1948	1948	1948	1948	1952	1983+	1972												
	MIN.	0	0	0	0	0	0	0	0	0	0	0	2												
	YEAR	1986+	1984+	1986+	1986+	1986+	1986+	1986+	1986+	1986+	1986+	1984+	1957+												
YEARS OF RECORD		39	38	39	38	38	38	38	38	38	38	39	39	38											
HIGHEST TEMPERATURE (F)	TEMP	73	76	84	85	93	102	103	100	97	87	78	75												
	YEAR AND DAY	198226	196305	197126	196021	197428	195423	197306	198006+	196004	197506+	197808+	198027												
YEARS OF RECORD		39	39	39	39	39	39	39	39	39	39	39	39												
LOWEST TEMPERATURE (F)	TEMP	-25	-25	-10	-2	22	30	43	41	17	3	-8	-21												
	YEAR AND DAY	196312	195101	194805	197502	195402	195102	197205+	196423	198529	196913	195010	198321												
YEARS OF RECORD		39	39	39	39	39	39	39	39	39	39	39	39												

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 (303) 491 - 8545

SUMMARY OF MONTHLY CLIMATIC DATA FOR DENVER WFO AP COLORADO FOR YEARS 1948-1986 SUBSTATION NO. 52220 DIVISION 4

		LATITUDE - 39 45 LONGITUDE - 104 52 ELEVATION - 5280 FEET													
		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	
MONTHLY PRECIPITATION (IN)	AVE.	0.52	0.62	1.28	1.85	2.46	1.70	1.84	1.42	1.14	1.02	0.83	0.58	15.25	
	MAX.	1.44	1.66	4.56	4.13	7.31	4.69	6.41	5.85	4.67	4.17	2.63	2.84	23.31	
	YEAR	1948	1960	1983	1957	1957	1967	1965	1979	1961	1969	1983	1973	1967	
	MIN.	0.01	0.01	0.18	0.03	0.06	0.09	0.54	0.06	0.01	0.05	0.01	0.03	7.51	
	YEAR	1952	1970	1982	1963	1974	1980	1978+	1960	1956	1962	1949	1977	1954	
GREATEST DAILY PRECIP (IN)	YEARS OF RECORD	39	39	39	39	39	39	39	39	39	39	39	39	39	
	AMOUNT	0.92	1.01	2.68	3.25	3.27	3.16	2.05	1.93	1.44	1.58	0.95	2.00		
	YEAR AND DAY	196208	195319	198305	196713	197306	197011	196525	195103	197328	196018	197920	198224		
MONTHLY SNOWFALL (IN)	YEARS OF RECORD	39	39	39	39	39	39	39	39	39	39	39	39	39	
	AVE.	7.7	7.7	13.8	9.2	2.0	0.0	0.0	0.0	1.7	4.1	8.8	7.7	62.8	
	MAX.	23.7	18.3	30.5	25.5	13.7	0.8	0.0	1.3	17.2	31.2	29.3	30.8	112.0	
	YEAR	1948	1960	1983	1957	1950	1951	1948	1951	1971	1969	1983	1973	1959	
	MIN.	0.3	0.3	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	27.9	
GRSTST DEPTH SNOW ON GRND IN MON (IN)	YEAR	1952	1970	1982	1969	1986+	1986+	1986+	1986+	1986+	1983+	1949	1977	1977	
	YEARS OF RECORD	39	39	39	39	39	39	39	39	39	39	39	39	39	
	YEAR AND DAY	194826	0	0	0	197807+	195305	0	195131	197118	196913	197921	0		
NO DAYS PRECIP GTR OR EQ 0.1 IN AVE.	YEARS OF RECORD	39	37	39	33	27	34	36	39	35	29	39	38		
	MAX.	2.1	2.6	4.6	5.0	6.0	4.8	4.9	4.0	3.0	3.1	2.9	2.2	45.3	
	YEAR	1951+	1952+	1949	1951	1953+	1949	1949	1949	1961+	1969	1952	1953	1951	
	MIN.	0	0	1	0	0	0	1	0	0	0	1	0	22	
	YEAR	1984+	1983+	1982+	1963	1974	1980+	1963	1985+	1978+	1962+	1984+	1980+	1954	
NO DAYS PRECIP GTR OR EQ 0.5 IN AVE.	YEARS OF RECORD	39	39	39	39	39	39	39	39	39	39	39	39	39	
	MAX.	0.1	0.1	0.5	1.0	1.5	0.8	1.1	0.8	0.6	0.6	0.3	0.1	7.6	
	YEAR	1949	1962+	1949	1973+	1957	1949	1965	1979	1961	1984	1983	1973	1949	
	MIN.	0	0	0	0	0	0	0	0	0	0	0	0	2	
	YEAR	1986+	1986+	1986+	1983+	1984+	1986+	1982+	1986+	1986+	1985+	1986+	1986+	1964+	
NO DAYS PRECIP GTR OR EQ 1.0 IN AVE.	YEARS OF RECORD	38	38	38	38	38	38	38	38	38	38	38	38	38	
	MAX.	0.0	0.0	0.1	0.2	0.5	0.3	0.4	0.2	0.2	0.1	0.0	0.1	2.0	
	YEAR	1948	1953	1983+	1980+	1967+	1983+	1956	1951	1961	1984+	1948	1982+	1969	
	MIN.	0	0	0	0	0	0	0	0	0	0	0	0	0	
	YEAR	1986+	1986+	1986+	1986+	1986+	1986+	1986+	1986+	1986+	1986+	1986+	1986+	1986+	
NUMBER OF DAYS WITH HAIL	YEARS OF RECORD	38	38	38	39	39	39	39	38	38	38	38	38	38	
	AVE.	0.0	0.0	0.0	0.3	1.3	0.7	0.9	0.7	0.2	0.1	0.0	0.0	4.3	
	MAX.	0	0	1	2	3	4	5	3	1	2	1	0	10	
	YEAR	1956	1956	1958	1972	1977+	1967	1965	1979+	1976+	1957	1978	1956	1972	
	MIN.	0	0	0	0	0	0	0	0	0	0	0	0	1	
NO. OF DAYS WITH SNOW ON GROUND (GTR OR EQ 1 INCH ON GROUND)	YEAR	1981+	1981+	1981+	1980+	1975+	1981+	1981+	1978+	1981+	1981+	1981+	1981+	1975+	
	YEARS OF RECORD	26	26	26	26	26	26	26	26	26	26	26	26	26	
	MAX.	11.9	7.3	6.8	2.6	0.4	0.0	0.0	0.0	0.4	1.6	7.1	9.8	48.0	
	YEAR	1983	1965	1983	1973	1978	1963	1963	1963	1971	1969	1985+	1983	1983	
	MIN.	2	0	1	0	0	0	0	0	0	0	1	0	16	
	YEAR	1981+	1970	1986+	1985+	1986+	1986+	1986+	1986+	1986+	1983+	1982	1977	1977	
	YEARS OF RECORD	24	24	24	24	24	24	24	24	24	24	24	24	24	

\*\* NOTE : MANY WEATHER STATIONS DO NOT RECORD ALL HAIL OCCURRENCES. THEREFORE THESE DATA MAY NOT BE REPRESENTATIVE.

PREPARED BY : COLORADO CLIMATE CENTER  
DEPARTMENT OF ATMOSPHERIC SCIENCE  
COLORADO STATE UNIVERSITY  
FORT COLLINS, CO 80523  
(303) 491 - 8545

DENVER WSFO AP

52220

Latitude, Longitude, Elevation =

3945

10452

5280

Max. Temp. in 1/10 deg. F. (eg. 36.5 = 365)

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1948	404	393	453	666	725	793	876	875	815	667	490	429	63.2
1949	286	448	518	622	689	775	859	853	776	632	649	474	63.2
1950	450	526	524	620	656	811	818	830	730	767	532	505	64.7
1951	391	472	495	558	701	734	879	840	765	612	517	411	61.5
1952	484	484	461	613	691	873	876	862	807	693	448	445	64.5
1953	529	458	577	548	658	842	871	846	815	680	561	442	65.2
1954	502	596	488	687	701	852	907	869	796	673	584	490	67.9
1955	388	401	504	649	725	772	904	862	779	695	490	486	63.8
1956	469	405	536	585	741	886	856	829	813	715	496	480	65.1
1957	382	546	515	526	646	793	865	858	759	621	476	540	62.7
1958	465	501	425	558	743	818	833	872	787	676	551	481	64.3
1959	428	412	497	587	679	852	872	862	748	611	531	496	63.1
1960	399	358	503	640	703	824	869	897	808	661	543	389	63.3
1961	440	483	505	602	675	810	876	866	694	652	474	406	62.4
1962	334	414	469	644	753	804	892	899	792	706	555	490	64.6
1963	331	515	508	657	767	827	912	812	817	738	580	439	65.9
1964	455	396	451	599	744	799	924	862	789	702	523	461	64.2
1965	488	408	404	653	706	763	868	844	681	718	592	494	63.5
1966	440	422	590	597	749	797	920	849	793	684	569	457	65.6
1967	489	503	585	639	660	728	824	829	775	686	564	405	64.1
1968	441	472	558	578	686	846	864	821	766	684	484	442	63.7
1969	498	497	449	666	719	737	888	887	790	495	534	464	63.5
1970	452	555	462	581	750	802	869	894	753	605	531	497	64.6
1971	457	434	540	622	683	864	862	886	725	647	542	464	64.4
1972	459	519	612	629	712	828	857	853	760	658	445	378	64.3
1973	398	475	504	550	683	836	857	888	743	704	534	450	63.5
1974	375	490	585	624	791	839	905	855	746	672	511	437	65.3
1975	464	452	504	582	680	795	872	862	753	705	508	505	64.0
1976	463	541	517	629	703	820	891	846	743	631	530	509	65.2
1977	439	518	538	633	749	863	878	829	823	694	537	491	66.6
1978	375	422	570	636	671	806	904	855	812	682	498	369	63.3
1979	306	473	520	621	665	799	895	825	807	677	445	476	62.6
1980	375	461	499	594	684	870	898	871	807	670	553	550	65.3
1981	520	518	525	702	674	842	900	848	821	652	597	487	67.4
1982	430	462	549	616	668	755	864	864	739	629	486	431	62.4
1983	421	474	455	517	625	750	874	877	810	678	494	282	60.5
1984	390	454	485	535	739	803	890	845	741	551	543	457	61.9
1985	375	404	545	638	730	820	863	877	715	651	404	416	62.0
1986	547	487	610	622	699	840	880	867	746	622	514	435	65.6

DENVER WSFO AP

52220 Latitude, Longitude, Elevation = 3945 10452 5280

Min. Temp. in 1/10 deg. F. (eg. 12.3 = 123)

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1948	123	139	175	365	449	535	577	581	519	359	238	164	35.2
1949	40	165	271	362	450	525	588	574	488	359	324	176	36.0
1950	137	246	238	333	403	521	559	547	480	431	250	221	36.4
1951	146	206	221	318	444	483	590	574	464	352	245	168	35.1
1952	213	215	214	351	444	567	586	583	504	373	198	206	37.1
1953	263	196	294	307	410	551	609	578	505	407	301	186	38.4
1954	223	278	218	384	442	534	628	585	518	377	302	203	39.1
1955	156	141	225	353	455	507	606	599	498	384	233	222	36.5
1956	210	149	265	324	476	582	588	565	497	402	247	234	37.8
1957	133	268	266	302	432	524	605	594	468	407	260	251	37.6
1958	193	246	231	333	491	544	573	599	500	401	261	235	38.4
1959	172	192	255	325	445	565	579	598	474	350	221	234	36.8
1960	153	138	259	369	440	542	594	571	492	378	246	141	36.0
1961	194	221	272	318	439	512	554	577	432	348	220	147	35.3
1962	55	183	223	362	442	506	565	550	456	362	270	185	34.7
1963	51	231	238	343	450	507	584	562	501	420	254	131	35.6
1964	156	151	209	333	432	501	592	546	461	351	276	203	35.1
1965	212	140	175	371	436	515	585	560	432	383	274	206	35.7
1966	131	146	259	295	424	495	617	567	506	360	260	180	35.3
1967	190	199	273	325	392	484	558	535	467	364	245	125	34.6
1968	153	212	254	281	392	509	569	541	451	354	230	136	34.0
1969	201	210	194	378	467	492	606	591	499	284	247	186	36.3
1970	159	216	208	292	425	502	570	583	437	312	250	168	34.3
1971	184	177	229	334	400	516	550	569	424	340	240	173	34.5
1972	150	204	283	341	428	537	547	566	481	383	212	120	35.4
1973	148	234	293	314	428	514	562	581	455	386	256	181	36.3
1974	98	213	278	333	441	529	588	534	442	376	248	186	35.5
1975	169	160	241	300	405	490	582	553	437	359	228	245	34.7
1976	183	244	224	354	430	506	614	558	492	336	260	200	36.7
1977	144	241	259	388	464	575	607	575	508	371	268	210	38.4
1978	141	205	296	369	417	531	590	537	487	379	257	123	36.1
1979	54	211	290	361	431	517	578	564	518	399	221	214	36.3
1980	144	229	261	359	458	568	629	592	508	378	285	274	39.0
1981	226	205	299	425	467	565	617	592	542	400	320	228	40.7
1982	175	178	273	331	433	507	589	598	495	350	227	187	36.2
1983	216	257	268	303	403	506	591	611	488	376	245	67	36.1
1984	155	227	258	310	460	527	607	591	472	344	250	199	36.7
1985	136	149	271	381	469	539	596	570	461	363	191	172	35.8
1986	259	235	331	369	435	566	590	576	467	364	265	185	38.7



DENVER MSFO AP

52220 Latitude,Longitude,Elevation = 3945 10452 5280

Mean Temp. in 1/10 deg. F. (eg. 26.4 = 264)

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1948	264	266	314	516	587	664	726	728	667	513	364	297	49.2
1949	163	307	395	492	570	650	724	714	632	496	487	325	49.6
1950	294	386	381	477	530	666	689	689	605	599	391	363	50.6
1951	269	339	358	438	573	609	735	707	615	482	381	290	48.3
1952	349	350	338	482	568	720	731	723	656	533	323	326	50.8
1953	396	327	436	428	534	697	740	712	660	544	431	314	51.8
1954	363	437	353	536	572	693	768	727	657	525	443	347	53.5
1955	272	271	365	501	590	640	755	731	639	540	362	354	50.2
1956	340	277	401	455	609	734	722	697	655	559	372	357	51.5
1957	258	407	391	414	539	659	735	726	614	514	368	396	50.2
1958	329	374	328	446	617	681	703	736	644	539	406	358	51.3
1959	300	302	376	456	562	709	726	730	611	481	376	365	50.0
1960	276	248	381	505	572	683	732	734	650	520	395	265	49.7
1961	317	352	389	460	557	661	715	722	563	500	347	277	48.8
1962	195	299	346	503	598	655	729	725	624	534	413	338	49.7
1963	191	373	373	500	609	667	748	687	659	579	417	285	50.7
1964	306	274	330	466	588	650	758	704	625	527	400	332	49.7
1965	350	274	290	512	571	639	727	702	557	551	433	350	49.6
1966	286	284	425	446	587	646	769	708	650	522	415	319	50.5
1967	340	351	429	482	526	606	691	682	621	525	405	265	49.4
1968	297	342	406	430	539	678	717	681	609	519	357	289	48.9
1969	350	354	322	522	593	615	747	739	645	390	391	325	49.9
1970	306	386	335	437	588	652	720	739	595	459	391	333	49.5
1971	321	306	385	478	542	690	706	728	575	494	391	319	49.5
1972	305	362	448	485	570	683	707	710	621	521	329	249	49.9
1973	273	355	399	432	556	675	710	735	599	545	395	316	49.9
1974	237	352	432	479	616	684	747	695	594	524	380	312	50.4
1975	317	306	373	441	543	643	727	708	595	532	368	375	49.4
1976	323	393	371	492	567	663	753	702	618	484	395	355	51.0
1977	292	380	399	511	607	719	743	702	666	533	403	351	52.5
1978	258	314	433	503	544	669	747	696	650	531	378	246	49.7
1979	180	342	405	491	548	658	737	695	663	538	333	345	49.5
1980	260	345	380	477	571	719	764	732	658	524	419	412	52.2
1981	373	362	412	564	571	704	759	720	682	526	459	358	54.1
1982	303	320	411	474	551	631	727	731	617	490	357	309	49.3
1983	319	366	362	410	514	628	733	744	649	527	370	175	48.3
1984	273	341	372	423	600	665	749	718	607	448	397	328	49.3
1985	256	277	408	510	600	680	730	724	588	507	298	294	48.9
1986	403	361	471	496	567	703	735	722	607	493	390	310	52.2

DENVER WSFO AP

52220 Latitude, Longitude, Elevation = 3945 10452 5280

## Heating Degree Days (65 deg. base)

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1948	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	-----
1949	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	-----
1950	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	-----
1951	1175	866	898	628	248	164	17	12	139	513	799	1108	6567.0
1952	927	865	962	496	253	0	23	0	68	354	971	1000	5919.0
1953	781	897	656	660	353	30	0	0	47	329	649	1033	5435.0
1954	884	589	912	333	256	42	0	4	71	395	616	934	5036.0
1955	1163	1054	878	444	203	105	0	2	126	336	858	911	6080.0
1956	955	1072	764	581	143	0	1	20	66	277	829	901	5609.0
1957	1206	674	795	701	333	74	0	0	141	420	838	782	5964.0
1958	986	765	990	606	138	36	14	4	106	342	724	898	5609.0
1959	1081	968	841	572	273	25	0	6	191	518	815	876	6166.0
1960	1151	1159	827	434	245	38	7	13	90	396	759	1187	6306.0
1961	1026	828	804	560	299	65	14	0	273	459	902	1150	6380.0
1962	1411	976	934	437	175	72	0	19	112	352	703	961	6152.0
1963	1417	768	848	442	156	50	6	7	29	229	690	1125	5767.0
1964	1059	1082	982	545	230	72	0	16	123	375	743	981	6208.0
1965	921	1044	1108	411	245	63	6	7	296	302	645	924	5972.0
1966	1122	1017	691	604	204	82	0	9	61	391	699	1018	5898.0
1967	954	832	679	498	388	135	4	16	108	389	729	1186	5918.0
1968	1086	885	751	655	343	38	10	35	145	399	871	1114	6332.0
1969	925	821	1011	378	204	144	2	0	56	801	769	998	6109.0
1970	1061	734	969	632	200	78	0	0	198	584	770	977	6203.0
1971	1018	958	817	508	329	25	24	0	273	479	771	1019	6221.0
1972	1063	832	621	486	246	4	42	15	107	397	960	1239	6012.0
1973	1162	820	771	646	290	56	8	0	166	321	758	1029	6027.0
1974	1277	831	671	507	137	67	0	9	199	381	803	1043	5925.0
1975	1024	957	852	621	332	85	0	4	195	363	840	843	6116.0
1976	1006	740	859	469	254	64	0	7	142	509	759	907	5716.0
1977	1105	749	771	414	137	0	2	14	38	358	737	920	5245.0
1978	1206	936	665	435	335	87	0	20	96	366	811	1245	6202.0
1979	1450	854	751	473	313	81	0	20	58	347	941	939	6227.0
1980	1204	876	828	514	247	9	0	4	56	386	683	731	5538.0
1981	853	801	727	260	243	26	0	12	19	375	570	898	4784.0
1982	1070	918	733	522	306	92	3	0	151	487	875	1050	6207.0
1983	1017	789	885	712	419	129	3	0	87	372	833	1469	6715.0
1984	1163	889	854	673	183	51	0	1	183	622	753	990	6362.0
1985	1215	1041	742	412	167	42	0	1	241	435	1051	1094	6441.0
1986	758	802	548	456	260	22	0	0	145	477	775	1045	5288.0

DENVER WSFO AP

52220 Latitude, Longitude, Elevation = 3945 10452 5280

Highest Temp. and Date (packed TTTDD, eg. 103 degrees on the 23rd = 10323)

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1948	6108	6426	6923	8329	8817	9117	9313	9417	9504	8103	7114	6603
1949	5101	6622	7219	8424	8503	9329	9317	9522	9116	8305	7318	7105
1950	7021	7126	7130	8122	8323	9324	9110	9131	9101	8712	7427	6523
1951	6826	7311	7026	7528	9028	9125	9715	9401	9211	8012	6510	6501
1952	6224	6626	6430	7807	8313	9712	9621	9416	9304	7903	7404	6415
1953	7209	6801	7528	8227	8821	9929	9603	9526	9227	8501	7315	5831
1954	7031	7508	7009	8023	9120	10223	10211	9703	8902	8602	7210	6720
1955	5513	5817	7330	8326	8530	9423	9910	9403	9201	8108	7204	7323
1956	7205	6223	7525	7726	8508	9613	9426	9105	9220	8407	7110	6229
1957	5920	6914	6609	7221	7828	9329	9702	9501	8908	8402	7026	7109
1958	6308	7022	6421	7916	8729	9529	9613	9509	9312	8418	7610	6503
1959	6524	5815	6818	8130	8101	9423	9528	9718	9506	8025	7009	6803
1960	6109	6008	7526	8521	8412	9729	9601	9831	9704	8408	7225	6702
1961	6423	7011	6924	8319	9011	9529	9917	9606	8518	8116	6501	6525
1962	6302	7211	7227	8320	9012	9528	9706	10014	9112	8710	7205	6717
1963	6531	7605	8328	8314	8730	9628	9925	9601	9218	8504	7315	6406
1964	6520	6401	6831	8116	9125	9527	9827	9510	9205	8601	7408	7123
1965	6506	6526	7031	8422	8420	8722	9615	9712	8606	8409	7301	6805
1966	6508	5804	7631	7926	8830	9328	9816	9611	9109	8126	7021	6705
1967	6411	6928	7929	8029	8724	8527	9322	9324	8802	8703	7415	6023
1968	6225	6124	7429	7530	8529	9720	9520	9205	8811	8329	7112	6611
1969	6907	6825	7431	8024	8930	9528	9702	10008	8906	8502	6707	6714
1970	6927	7217	6724	8026	8720	9728	9318	9802	9011	8104	7625	6808
1971	6920	6813	8426	7810	8528	9825	10117	9422	9407	8310	7510	6923
1972	6323	7428	7709	8011	8525	8929	10030	9812	8627	8310	6008	6527
1973	6316	6227	6717	7828	8320	9525	10306	9427	8707	8723	7810	7301
1974	5931	6428	7517	8025	9328	9628	9511	9417	9310	8303	7321	6304
1975	6726	6513	7120	8225	8516	9330	9501	9507	8706	8706	7505	6904
1976	6629	6878	7325	7912	8518	9427	9810	9176	9255	8210	7108	6566
1977	6020	6821	7173	8109	8523	9529	9817	9376	9358	8376	7505	6711
1978	5506	6623	7781	8207	8715	9574	9825	9467	9456	8601	7808	5754
1979	5421	7114	6766	7873	8127	9526	9666	9906	9308	8607	6517	6618
1980	6113	7027	6815	8171	8377	9823	9729	10006	9319	8259	7657	7527
1981	6923	7119	7126	8426	8102	9673	10021	9804	9402	8102	7467	7106
1982	7326	7172	6878	8011	8427	9379	9973	9301	9404	8007	7206	6917
1983	5813	6218	6802	7625	8326	9321	9669	9316	9502	7877	7407	5208
1984	5805	6401	7014	7517	9023	9429	9771	9029	9160	7611	7602	6807
1985	6017	6279	7425	8416	8579	9808	9857	9781	8702	7906	7204	6021
1986	6819	7425	7930	7822	8721	9928	9804	9818	8614	7417	7021	5805

DENVER WSFO AP

52220 Latitude, Longitude, Elevation = 3945 10452 5280

Lowest Temp and Date (packed TTTDD, eg. -20 degrees on the 27th = -2027)

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1948	-2027	-811	-1005	2508	3106	4323	5230	5227	4229	1917	1127	-125
1949	-1929	-601	1031	2401	3306	4301	5221	5218	4113	2630	2221	-112
1950	-1404	201	-512	2204	2805	3704	5023	4729	4028	3004	-810	-606
1951	-2471	-2501	1212	1512	3301	3002	4801	5115	3221	2131	-602	-1020
1952	522	725	-322	2304	3418	4928	4307	5031	4002	2415	-725	425
1953	215	-221	1503	818	2312	4005	5608	5020	4021	3126	1020	122
1954	120	1628	-503	2503	2202	3403	5623	5308	3729	2127	1130	-428
1955	509	-520	-426	2305	3417	3904	5301	4930	3820	2523	-416	204
1956	331	-502	12	2107	3413	5007	5404	4431	4106	2730	1020	508
1957	-529	1801	1506	907	2917	4117	5705	5318	3522	2226	1221	1031
1958	-121	312	917	2524	4001	4225	5006	5231	3330	2831	-528	914
1959	-1304	405	1421	712	3407	4501	4801	5431	2930	2131	14	705
1960	-719	-1128	-803	2230	3201	4613	5104	4417	3624	2430	729	-706
1961	-327	905	406	2115	3213	4016	4812	5322	2930	2225	-219	-1610
1962	-2410	-1828	-401	1501	3301	4109	5015	4331	3109	2625	1519	-825
1963	-2512	12	-313	2723	3521	4517	5229	4930	4028	2527	1530	-1111
1964	-512	-326	404	2105	2704	4323	5113	4123	3327	1919	1929	-817
1965	503	-516	-324	2514	2909	4302	5202	4631	3017	2931	1726	16
1966	-1321	-615	703	1320	2712	4106	5503	5025	3730	2215	1009	328
1967	17	915	408	2422	2601	4202	5103	4831	3613	2227	822	-1231
1968	-1003	514	903	1304	2808	4030	4702	4230	3616	2527	1029	-1222
1969	-524	1203	-208	2728	3708	3613	5405	5426	4225	313	1218	29
1970	-1006	1005	819	1704	2601	3701	5328	5116	3326	2015	1023	425
1971	-1606	-207	-207	2106	3219	4305	4330	5007	2019	1330	1218	-609
1972	-1604	-203	1129	2404	2602	4826	4305	4525	3627	1531	29	-1810
1973	-709	708	1904	508	3102	3920	4815	5201	3527	3011	1404	-731
1974	-1705	208	524	2004	3311	3708	5004	4521	3328	2831	530	424
1975	-912	-1106	428	-202	3101	3811	5413	4425	3128	2125	120	118
1976	-403	106	-205	2503	3567	3719	5503	4977	3628	1919	-378	581
1977	-409	1626	1701	2503	3821	5012	5111	4928	4018	2511	320	59
1978	1	717	-354	2710	2307	4101	5023	4415	3221	2823	827	-1008
1979	-1101	-301	1353	1452	2910	4210	5157	4820	4115	2331	428	112
1980	-430	-508	101	2362	3963	4702	5427	4921	3923	2574	1477	1108
1981	1331	-1211	1508	2805	3610	4466	5327	5317	4527	2025	1176	623
1982	-307	-1505	1707	2021	3206	4109	5010	5475	3980	2769	1124	-780
1983	102	1106	1321	706	2818	3806	4904	5628	2871	2825	-730	-2121
1984	-1918	978	1005	2304	3458	4110	5501	5330	2928	2117	1227	414
1985	-1531	-1405	204	2658	3513	4327	5102	4924	1729	2701	-130	-662
1986	1208	-510	2319	1604	3410	4511	5421	5328	3227	2412	710	-910

DENVER MSFO AP

52220 Latitude, Longitude, Elevation = 3945 104.2 5280

Number of days with temperature  $\geq 90$  and  $\leq 32$  (first two digits for  $\geq 90$  last two for  $\leq 32$ )

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1948	10	8	7	0	0	200	1400	1400	600	1	4	5
1949	20	5	3	0	0	300	1000	600	100	0	0	1
1950	M07	M01	M02	M H	M H	5 H	3 H	2 H	2 H	M H	M01	M02
1951	7	2	3	0	200	100	1800	600	100	1	2	8
1952	3	2	4	0	0	1500	1500	1100	500	0	0	0
1953	2	7	1	1	0	1200	1200	500	200	0	0	0
1954	4	1	4	0	100	1100	1900	1200	0	0	0	0
1955	8	11	6	0	0	200	2000	1000	500	0	0	4
1956	4	9	4	0	0	1000	1000	600	500	0	4	0
1957	13	0	1	2	0	300	1200	900	0	0	3	0
1958	2	2	9	0	0	600	600	1400	400	0	0	3
1959	8	5	1	3	0	1200	1100	900	500	0	0	0
1960	12	10	4	0	0	800	1400	2200	600	0	0	0
1961	5	2	4	1	100	700	1400	900	0	0	0	0
1962	11	10	2	0	100	200	1500	2100	500	0	2	3
1963	14	2	4	0	0	800	2500	100	300	0	0	0
1964	4	10	6	1	200	500	2700	1100	500	0	2	2
1965	0	8	10	0	0	0	1400	800	0	0	0	0
1966	6	4	2	1	0	400	2200	1000	100	0	0	0
1967	3	1	2	0	0	0	200	200	0	0	1	4
1968	4	3	1	0	0	1000	900	500	0	0	2	6
1969	3	1	11	0	0	200	1700	1500	0	2	1	5
1970	8	0	7	1	0	300	900	1800	200	0	1	0
1971	7	7	4	0	0	1100	1300	1100	300	2	1	2
1972	6	3	1	0	0	0	1500	1000	0	2	5	10
1973	11	2	0	1	0	900	1000	1400	0	0	3	4
1974	9	2	2	0	200	1100	2200	800	300	0	1	2
1975	5	6	3	1	0	500	1100	800	0	0	3	3
1976	4	3	4	0	0	600	1600	400	300	0	3	0
1977	6	1	1	0	0	1000	1400	400	500	0	2	2
1978	9	7	1	0	0	1100	2200	1200	700	0	5	0
1979	18	4	0	1	0	400	1800	900	300	0	4	3
1980	10	5	0	0	0	1400	1900	1100	500	0	3	1
1981	1	3	1	0	0	1000	1900	1200	200	0	0	1
1982	7	7	1	0	0	200	1200	600	100	0	1	8
1983	6	4	6	4	0	300	1000	700	400	0	0	14
1984	8	4	1	1	100	200	1400	100	300	0	0	1
1985	10	7	1	0	0	800	1200	1500	1	0	10	0
1986	0	6	0	0	0	900	1400	800	0	1	2	1

\* M Indicates missing observation

DENVER MSFO AP 52220 Latitude, Longitude, Elevation = 3945 10452 5280

Number of days with temperature  $\leq 32$  and  $\leq 0$  (first two digits for  $\leq 90$  last two for  $\leq 0$ )

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1948	3007	2805	2705	1300	200	0	0	0	0	1000	2600	3001
1949	3111	2804	2700	1000	0	0	0	0	0	1000	1400	3002
1950	2803	21 M	2402	17 M	6 M	M M	M M	M M	M M	1 M	1902	2802
1951	2804	2603	2800	1500	0	100	0	0	100	1100	2302	2904
1952	2700	2900	2901	1000	0	0	0	0	0	900	2504	3100
1953	2100	2602	2400	1800	600	0	0	0	0	200	2000	3000
1954	2600	2100	2701	700	300	0	0	0	0	1000	1700	3001
1955	3100	2703	2602	1000	0	0	0	0	0	500	2401	2600
1956	2900	2903	1901	1600	0	0	0	0	0	500	2700	2700
1957	3102	2200	2500	1400	300	0	0	0	0	600	2600	2800
1958	3101	2200	2500	1400	0	0	0	0	0	500	2402	2900
1959	3106	2800	2800	1300	0	0	0	0	200	1100	2301	2900
1960	3104	2807	1803	900	100	0	0	0	0	400	2500	3104
1961	3001	2600	2400	1700	100	0	0	0	200	1000	2701	3105
1962	3113	2204	2901	1100	0	0	0	0	200	800	2500	3101
1963	3112	2301	2401	1200	0	0	0	0	0	200	2900	3105
1964	3102	2702	3000	1200	300	0	0	0	0	1000	2400	2703
1965	3000	2605	2904	400	100	0	0	0	300	200	2400	3002
1966	3004	2804	2300	2000	400	0	0	0	0	800	2400	3100
1967	2801	2800	2400	1900	700	0	0	0	0	1000	2500	3105
1968	3004	2900	2700	2300	400	0	0	0	0	1000	2700	3005
1969	3101	2800	2802	300	0	0	0	0	0	1800	2600	3101
1970	2904	2700	3000	2000	300	0	0	0	0	1800	2600	3100
1971	2904	2802	2801	1200	100	0	0	0	300	1300	2500	3103
1972	2806	2602	2300	1200	300	0	0	0	0	500	3001	2811
1973	2708	2800	2800	1300	200	0	0	0	0	500	2500	3002
1974	3011	2800	2200	1100	0	0	0	0	0	200	2700	3100
1975	3102	2702	2700	1901	100	0	0	0	200	900	2200	2400
1976	3003	2600	2902	500	0	0	0	0	0	1500	2102	3100
1977	3102	2500	2600	500	0	0	0	0	0	500	2000	2202
1978	3101	2800	1502	600	200	0	0	0	100	800	2400	3104
1979	3111	2602	2300	700	400	0	0	0	0	300	2900	2800
1980	2806	2302	2600	1000	0	0	0	0	0	900	1900	2400
1981	3000	2403	1800	200	0	0	0	0	0	300	1300	2500
1982	3001	2406	2500	1300	100	0	0	0	0	900	2900	3004
1983	3000	2600	2500	1600	500	0	0	0	300	700	2101	3111
1984	3105	2900	2900	2100	0	0	0	0	400	1800	2800	2700
1985	3105	2707	2400	600	0	0	0	0	500	1000	2701	3104
1986	2600	2001	1600	900	0	0	0	0	100	400	2500	3102

DENVER MSFO AP

52220 Latitude, Longitude, Elevation = 3945. 10

5280

Total Precipitation in 1/100 inches (eg. 1.44 inches = 144)

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1948	144	44	171	252	184	194	80	41	45	16	65	26	1272
1949	117	3	229	146	331	427	135	92	28	136		33	2774
1950	47	20	31	298	280	332	56	27	158	12	100	32	1303
1951	83	78	147	201	178	227	83	447	97	116	117	41	1942
1952	1	68	212	275	306	12	106	141	54	18	121	3	1343
1953	39	139	115	129	266	146	198	125	20				1175
1954	23	4	49	88	60	66	199	51	77				
1955	23	85	114	48	247	139	299	241	272				
1956	39	77	89	72	236	44	417	183	1	12	121	1	1811
1957	32	73	109	413	731	109	129	203	42	162	19	6	2128
1958	73	100	148	173	446	147	350	117	151	27	74	62	1891
1959	124	131	295	135	333	44	83	25	182				1811
1960	77	166	89	256	227	63	131	6	38	16	13		1208
1961	7	66	251	106	412	111	160	121	467		13		1811
1962	133	105	52	110	84	152	54	46	19	3	68	1	1811
1963	71	21	142	3	68	359	55	252	125				1211
1964	26	104	138	125	253	82	72	27	41	19	86	2	1811
1965	100	127	120	105	182	414	641	106	258				2187
1966	30	128	32	146	34	141	104	206	115	16	31	11	1861
1967	84	39	79	395	477	469	325	83	60	13	101	118	2331
1968	51	74	85	239	71	50	134	253	59	25	21	21	1213
1969	17	43	110	133	612	299	181	79	167	17	62	42	2152
1970	10	1	134	97	64	383	167	54	247	81	119	2	1873
1971	35	78	53	198	134	23	120	85	285	44	16	25	1896
1972	36	44	50	352	49	294	63	271	207	82	169	76	1887
1973	131	16	176	373	506	20	247	128	285	47	83	264	2296
1974	103	82	132	228	6	201	234	16	98	68	106	29	1803
1975	23	37	119	114	280	211	278	200	24	30	168	47	1551
1976	19	54	134	127	134	63	231	250	188	93	32	16	1841
1977	16	27	124	213	34	102	298	100	10	48	59	3	1814
1978	27	27	107	182	346	117	54	26	7	15	36	62	1817
1979	34	42	125	141	353	239	81	585	36	14	146	14	2136
1980	64	45	115	254	273	9	293	165	63	10	16	18	1811
1981	29	35	227	101	376	63	90	116	35	19	42	65	1879
1982	32	9	18	34	348	226	92	116	138	151	47	234	1845
1983	15	7	456	210	362	265	175	151	13	19	263	42	2119
1984	18	81	119	242	65	126	211	320	47	47	27	46	1811
1985	68	59	69	261	133	146	371	28	233	112	129	61	1811
1986	22	65	43	259	130	107	169	53	43	111	117	2	1811

DENVER WFO AP

52220 Latitude, Longitude, Elevation = 3945 10452 5280

Total Snowfall in 1/10 inches (eg. 23.7 inches =237)

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1948	237	73	220	55	MISS	0	0	0	0	8	67	48	-----
1949	205	4	142	127	MISS	0	0	MISS	0	72	0	60	-----
1950	88	29	54	90	137	MISS	0	0	0	MISS	119	59	-----
1951	157	105	176	129	MISS	8	MISS	13	42	81	145	112	-----
1952	3	102	252	112	MISS	MISS	0	0	0	12	145	31	-----
1953	74	165	118	120	17	5	0	0	0	1	72	144	71.6
1954	27	6	63	76	26	MISS	MISS	0	0	4	39	86	-----
1955	35	122	195	49	MISS	MISS	MISS	0	3	41	73	29	-----
1956	63	105	130	37	MISS	0	0	0	0	6	213	63	-----
1957	53	16	89	255	88	0	0	0	MISS	39	30	8	-----
1958	89	120	144	141	0	0	0	0	MISS	26	97	77	-----
1959	174	175	268	176	MISS	0	0	0	129	118	53	27	-----
1960	107	183	90	93	MISS	0	0	0	0	46	51	178	-----
1961	10	79	292	86	64	0	0	0	58	62	114	38	80.3
1962	172	113	68	100	0	0	0	0	7	0	50	12	52.2
1963	91	21	180	2	0	0	0	0	0	11	35	59	39.9
1964	26	127	184	121	10	0	0	0	0	MISS	60	44	-----
1965	132	171	149	3	MISS	0	0	0	55	0	55	56	-----
1966	36	146	28	64	29	0	0	0	MISS	83	30	19	-----
1967	99	44	66	36	30	0	0	0	0	17	94	131	51.7
1968	30	73	92	151	MISS	0	0	0	0	4	58	69	-----
1969	28	42	132	MISS	0	0	0	0	0	312	51	31	-----
1970	9	3	205	47	MISS	0	0	0	46	59	92	9	-----
1971	86	119	96	60	MISS	0	0	0	172	31	14	84	-----
1972	109	91	71	172	0	0	0	0	0	97	194	98	83.2
1973	121	30	151	248	10	0	0	0	0	23	93	308	98.4
1974	82	103	128	178	0	MISS	0	0	18	10	119	21	-----
1975	36	40	143	109	61	0	0	0	0	27	152	73	64.1
1976	32	64	187	12	0	0	0	0	0	72	45	31	44.3
1977	24	31	96	47	0	0	0	0	0	33	41	7	27.9
1978	55	62	86	46	135	0	0	0	MISS	27	69	142	-----
1979	91	58	182	81	82	0	0	0	0	27	223	165	90.9
1980	123	96	121	100	MISS	0	0	0	0	15	71	12	-----
1981	41	43	240	29	MISS	0	0	0	0	28	33	99	-----
1982	48	18	21	20	MISS	MISS	0	0	0	12	18	271	-----
1983	13	8	305	113	76	0	0	0	MISS	MISS	293	115	-----
1984	34	79	120	168	MISS	0	0	0	52	131	23	50	-----
1985	125	87	76	8	MISS	0	0	0	87	19	170	103	-----
1986	24	62	26	140	0	0	0	0	0	43	115	49	45.9



DENVER MSFO AP

52220 Latitude, Longitude, Elevation = 3945 10452 5280

Greatest amount of precipitation in 1/100 inches (eg. 204 = 2.04 inches)

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1948	45	14	70	240	105	59	44	13	40	9	21	20
1949	43	3	58	42	95	100	53	27	14	44	1	31
1950	36	10	16	180	131	206	24	10	56	12	55	17
1951	42	46	37	57	55	60	48	193	67	124	33	29
1952	1	21	75	113	150	7	51	55	40	17	38	9
1953	17	101	93	33	175	46	105	75	10	31	40	23
1954	19	3	30	55	29	18	115	32	16	2	28	38
1955	17	47	32	30	124	43	137	139	131	48	31	8
1956	31	26	37	28	76	18	142	135	1	16	53	21
1957	9	42	67	199	234	54	38	55	26	77	10	6
1958	27	44	36	50	186	48	105	99	89	21	33	25
1959	36	54	139	87	106	14	53	8	96	79	28	16
1960	36	58	33	73	97	25	64	3	18	158	28	57
1961	4	20	70	54	180	56	46	32	117	58	40	16
1962	92	72	16	64	33	61	25	28	8	3	46	10
1963	26	11	47	2	22	131	42	62	60	16	45	23
1964	9	30	42	98	133	30	37	18	20	18	40	12
1965	46	37	24	40	57	223	205	35	97	41	36	19
1966	17	39	18	60	21	55	39	64	39	61	25	10
1967	36	15	36	325	151	195	83	38	43	37	67	41
1968	47	35	37	78	20	26	78	131	26	36	22	25
1969	9	23	40	46	295	166	125	38	130	128	38	15
1970	4	1	25	54	16	316	57	19	90	24	67	9
1971	20	47	36	107	31	9	76	58	117	17	11	11
1972	13	16	32	304	17	77	12	67	122	53	44	22
1973	87	10	57	90	327	8	106	95	144	22	39	123
1974	46	23	40	85	4	179	126	8	31	64	42	9
1975	14	10	36	33	94	55	47	137	8	30	75	29
1976	9	44	47	37	56	21	129	171	39	60	26	7
1977	8	14	107	71	10	24	92	27	8	39	26	2
1978	10	12	49	86	111	38	21	10	4	91	35	35
1979	9	24	29	71	163	102	42	105	24	48	95	42
1980	28	24	35	129	60	8	118	98	29	10	20	7
1981	19	25	55	39	108	13	48	45	15	26	22	33
1982	15	4	11	12	125	65	40	28	43	50	27	200
1983	8	3	268	48	106	137	79	70	12	21	72	17
1984	8	39	56	95	46	34	82	100	35	107	16	29
1985	20	21	34	94	66	77	151	8	76	38	57	28
1986	20	31	16	97	64	38	89	17	13	51	44	11

DENVER WSFO AP

52220

Latitude, Longitude, Elevation =

3945

10452

5280

## Greatest Snowdepth in inches

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1948	14	6	8	4	MISS	0	0	0	0	MISS	2	3
1949	8	3	5	1	0	0	0	0	0	MISS	0	5
1950	5	2	4	4	7	MISS	0	0	0	MISS	9	5
1951	7	7	5	8	MISS	MISS	MISS	1	3	2	6	5
1952	1	4	13	3	MISS	MISS	0	0	0	1	5	4
1953	4	10	6	7	MISS	1	0	0	0	MISS	5	4
1954	2	MISS	4	5	4	MISS	MISS	0	0	MISS	4	8
1955	3	7	7	5	MISS	MISS	MISS	0	MISS	3	3	2
1956	5	5	5	1	0	0	0	0	0	MISS	11	2
1957	2	1	5	16	3	0	0	0	0	3	1	1
1958	7	6	6	2	0	0	0	0	MISS	1	5	3
1959	5	8	12	9	MISS	0	0	0	7	5	4	2
1960	6	6	7	5	MISS	0	0	0	0	1	3	9
1961	1	2	9	3	1	0	0	0	1	6	5	3
1962	12	7	4	2	0	0	0	0	MISS	0	2	1
1963	3	1	9	MISS	0	0	0	0	0	0	3	2
1964	1	5	6	10	1	0	0	0	0	MISS	5	1
1965	4	7	4	0	0	0	0	0	1	0	6	3
1966	1	7	1	4	2	0	0	0	0	3	3	1
1967	4	1	3	3	MISS	0	0	0	0	2	5	4
1968	4	5	4	3	0	0	0	0	0	0	2	4
1969	2	2	5	MISS	0	0	0	0	0	11	2	2
1970	2	MISS	5	4	0	0	0	0	3	1	4	1
1971	8	8	7	2	MISS	0	0	0	10	2	1	3
1972	6	5	4	12	0	0	0	0	0	2	13	5
1973	7	2	3	9	2	0	0	0	0	1	4	13
1974	9	5	6	5	0	0	0	0	1	1	3	1
1975	2	1	5	8	1	0	0	0	0	3	5	2
1976	4	5	5	MISS	0	0	0	0	0	5	3	1
1977	1	2	8	2	0	0	0	0	0	0	3	MISS
1978	2	2	4	3	7	0	0	0	0	MISS	5	6
1979	4	2	4	3	2	0	0	0	0	MISS	17	9
1980	5	6	6	4	0	0	0	0	0	1	3	1
1981	1	2	7	MISS	0	0	0	0	0	2	2	7
1982	3	1	1	MISS	MISS	0	0	0	0	1	1	24
1983	13	2	12	5	2	0	0	0	MISS	MISS	16	10
1984	3	4	6	11	MISS	0	0	0	3	9	2	3
1985	5	4	2	MISS	MISS	0	0	0	8	1	6	6
1986	2	2	2	10	0	0	0	0	0	1	3	5

DENVER WSFO AP

52220 Latitude, Longitude, Elevation = 3945 10452 5280

Date of Greatest Amount of Precipitation and Greatest Snowpack (1st 2 digits = precip., 2nd 2 = snow)

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1948	2426	2901	2121	2424	3111	2200	2800	2100	1900	1616	708	2374
1949	204	1299	2830	910	600	300	500	2400	300	1969	1100	1111
1950	2425	1212	1262	1529	2526	1616	2899	1199	899	101	809	505
1951	2929	1213	2828	910	920	951	505	331	2121	571	551	1363
1952	151	2803	2171	2171	2321	427	799	2199	1399	1414	1767	3101
1953	1464	1969	3080	1161	1651	505	999	2299	299	2123	369	1055
1954	959	2676	151	2930	2351	2625	1464	1399	2499	7575	1330	2677
1955	551	1819	1525	1112	1866	466	2762	2799	1918	2323	757	352
1956	2929	708	615	2358	2399	3099	3199	299	599	2974	1969	1458
1957	5976	2777	303	252	916	1599	2699	699	1399	774	1565	707
1958	1820	2812	901	2579	899	1499	1899	2199	1580	2929	1678	1263
1959	2979	2405	2526	859	2172	2099	2599	699	2929	2980	2526	455
1960	1469	2279	1453	2929	569	899	399	1699	999	1865	859	406
1961	2677	2677	1828	2475	1364	1999	8099	3099	1903	2929	1269	863
1962	860	1768	3001	2901	1699	799	2399	2399	809	1999	1566	2476
1963	455	1075	355	2222	3099	1699	999	699	2099	3199	1617	2173
1964	6163	2576	203	304	2908	199	1199	2799	1599	1030	1415	2576
1965	3181	1466	1725	2699	2699	499	2599	1799	2021	1899	2626	1366
1966	3172	1213	2173	1170	1212	899	2199	1899	6599	1465	809	679
1967	2515	1970	758	1314	3064	2099	799	899	2699	1429	203	2681
1968	2201	1265	1011	1768	1899	2499	2499	999	2299	899	1479	2174
1969	2324	1717	153	1517	799	899	1999	2999	999	313	153	2481
1970	558	102	2411	1101	8199	1199	899	1999	2125	1076	1213	1011
1971	255	2021	506	2204	1019	799	2599	1899	1718	1730	1769	708
1972	1204	7510	2879	2627	799	499	2099	2399	799	3131	102	561
1973	2021	1819	1869	708	601	5499	2499	799	2899	1111	1920	2326
1974	2162	6818	1819	1364	299	899	2199	999	212	1214	364	675
1975	2172	1469	3127	1802	2929	799	599	1399	1099	2324	870	3168
1976	1802	2021	2806	3028	2199	199	2599	199	2699	2627	2627	1031
1977	2223	1315	1011	1503	2099	1899	2099	1699	1199	3199	601	810
1978	1525	1213	2204	910	107	199	2999	399	1999	2223	2527	506
1979	1280	2758	209	1062	260	799	2599	1999	1399	2181	2021	2228
1980	1870	759	2729	2402	1599	2099	999	1499	999	2728	7425	708
1981	3167	2071	2805	2008	1799	6499	2699	1699	2399	1525	2577	2122
1982	1164	155	405	480	1281	6899	199	1199	1399	819	1123	2476
1983	3101	154	506	2205	1718	2699	2199	599	480	281	2628	2301
1984	1365	1427	2223	2021	681	199	3099	1299	2828	416	2577	1366
1985	2930	2255	2980	2580	1281	2599	1999	5499	2829	3114	910	961
1986	608	2021	1720	304	1699	1099	1799	2299	799	3111	3007	710

DENVER MSFO AP

52220 Latitude, Longitude, Elevation = 3945 10452 5280

Number of day with prec. &gt;= .1, .5, 1.0 (two digits for each field)

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1948	90100	90000	90300	20101	120201	110200	60200	80000	20100	50000	70000	40000
1949	80200	10000	120400	120200	130400	170501	150100	120100	20000	70200	10000	20100
1950	79999	59999	39999	89901	109901	69901	89999	59999	89999	19999	59999	39999
1951	90000	40000	100000	150100	110100	150100	90000	90302	40100	60101	60000	70000
1952	10000	90000	100200	110201	110201	40000	80100	100100	40000	20000	90000	50000
1953	30000	60101	70100	130000	130101	90000	70101	70100	30000	60000	40000	80000
1954	10000	0	10000	20100	20000	30000	30101	10000	40000	0	30000	20000
1955	10000	20000	40000	20000	60201	60000	50201	30201	50201	20000	20000	0
1956	10000	40000	30000	30000	50100	20000	40303	30101	0	20000	40100	30000
1957	0	20000	30100	90201	90502	40100	50000	50100	10000	60200	10000	0
1958	20000	20000	60000	40100	70301	50000	80301	20100	40100	10000	30000	20000
1959	50000	30100	60101	20100	80201	20000	20100	0	40100	60200	10000	20000
1960	30000	40100	40000	50300	40200	20000	30100	0	10000	30201	20000	40100
1961	0	30000	60100	30100	70202	20100	30000	50000	80402	10100	20000	10000
1962	30100	30100	30000	20100	20000	40100	20000	10000	0	0	20000	10000
1963	20000	10000	40000	0	30000	50301	10000	90100	30100	20000	10000	20000
1964	0	50000	50000	10100	40101	40000	30000	10000	20000	10000	20000	10000
1965	40000	50000	40000	30000	50200	50201	110402	40000	50200	10000	10000	30000
1966	10000	50000	10000	40100	10000	50100	30000	50100	30000	30100	10000	10000
1967	30000	10000	30000	40101	70302	100101	60200	30000	20000	40000	20100	30000
1968	10000	20000	40000	50200	30000	30000	30100	60101	20000	20000	40000	20000
1969	0	20000	30000	30000	70401	50101	30101	30000	30101	90301	10000	10000
1970	0	0	60000	30100	30000	40101	60100	20000	50200	40000	30100	0
1971	10000	30000	20000	50101	40000	0	20100	20100	60101	30000	10000	10000
1972	20000	20000	20000	20101	20000	70200	20000	80200	30101	10100	50000	30000
1973	20100	10000	50100	70300	50201	0	50201	20100	40201	10000	40000	50201
1974	30000	30000	60000	60200	0	20101	50101	0	40000	50100	30000	0
1975	10000	10000	40000	50000	60200	50100	80000	40101	0	10000	40200	10000
1976	0	10000	40000	40000	40100	30000	40101	30101	70000	20100	10000	0
1977	0	10000	20101	50100	10000	50000	60300	30000	0	10000	30000	0
1978	10000	10000	40000	40100	70201	40000	30000	10000	0	30100	10000	30000
1979	0	10000	50000	40100	80101	30201	30000	80701	10000	40000	40100	30000
1980	20000	10000	30000	60201	60400	0	50201	30100	30000	10000	20000	0
1981	20000	10000	80100	40000	70301	50000	20000	30000	10000	30000	20000	20000
1982	10000	0	10000	10000	110101	60200	30000	40000	40000	50100	10000	30101
1983	0	0	90201	70000	100201	50201	50100	40100	10000	20000	50300	20000
1984	0	40000	30100	70100	20000	40000	50100	60201	10000	70401	10000	10000
1985	20000	20000	30000	60200	40100	40100	70301	0	40200	30000	40100	30000
1986	10000	20000	20000	70200	30100	40000	40100	20000	20000	60100	40000	20000

DENVER WSFO AP

52220 Latitude, Longitude, Elevation = 3945 10452 5280

Number of days with snow or hail (1st two digits for hail days, 2nd two for snow)

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1948	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS
1949	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS
1950	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS
1951	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS
1952	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS
1953	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS
1954	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS
1955	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS
1956	MISS	MISS	MISS	MISS	MISS	1 M	1 M	MISS	MISS	MISS	MISS	MISS
1957	MISS	MISS	MISS	MISS	3 M	1 M	MISS	MISS	MISS	2 M	MISS	MISS
1958	MISS	MISS	1 M	MISS	1 M	1 M	2 M	MISS	MISS	MISS	MISS	MISS
1959	MISS	MISS	MISS	MISS	MISS	MISS	1 M	MISS	MISS	MISS	MISS	MISS
1960	MISS	MISS	MISS	1 M	3 M	1 M	MISS	MISS	MISS	MISS	MISS	MISS
1961	MISS	MISS	MISS	MISS	1 M	MISS	MISS	1 M	1 M	MISS	MISS	MISS
1962	MISS	MISS	MISS	MISS	2 M	MISS	MISS	MISS	MISS	MISS	MISS	MISS
1963	14	3	10	0	100	0	0	0	0	0	3	8
1964	3	12	10	3	100	200	0	100	0	0	7	2
1965	3	17	12	100	200	100	500	0	1	0	2	9
1966	3	14	3	102	1	0	100	300	0	2	3	3
1967	8	3	4	1	300	400	100	0	0	1	7	13
1968	14	6	4	3	0	100	0	100	100	0	7	11
1969	2	2	13	100	100	100	100	0	100	13	5	7
1970	10	0	11	4	100	0	0	0	1	2	6	1
1971	14	12	8	1	300	0	100	0	4	2	2	3
1972	10	4	3	204	200	100	200	200	100	2	17	20
1973	24	5	8	7	2	0	300	200	100	1	10	19
1974	30	8	6	6	0	0	100	0	1	101	6	3
1975	3	7	5	6	1	100	0	0	0	1	17	5
1976	8	5	11	100	100	0	0	200	100	3	4	3
1977	4	2	3	2	300	100	0	0	0	0	5	0
1978	5	7	3	2	203	100	0	0	0	0	105	17
1979	15	9	7	5	102	0	200	300	0	0	14	16
1980	25	9	7	4	100	0	300	100	0	1	11	1
1981	2	8	11	100	200	0	0	100	0	1	4	11
1982	M14	M02	M01	M00	M00	M00	M00	M00	M00	M01	M01	M11
1983	M31	M09	M16	M05	M01	M00	M00	M00	M00	M00	M11	M21
1984	M27	M08	M03	M04	M00	M00	M00	M00	M01	M06	M03	M10
1985	M14	M15	M04	M00	M00	M00	M00	M00	M02	M01	M17	M16
1986	M03	M08	M01	M04	M00	M00	M00	M00	M00	M01	M04	M14

**APPENDIX E.**  
**COMMENTS AND REPOSSES TO THE**  
**AIR REMEDIAL INVESTIGATION, DRAFT FINAL**  
**REPORT, MAY 1988**

The Task 18 Air Remedial Investigation, Draft Final Report was distributed on May 5, 1988 to all Organizations and the State (OAS). Following a review period of 45 days, comments were received from Shell Oil Company on June 15, 1988; from the Colorado Department of Health on June 17, 1988; and from the U.S. Environmental Protection Agency on June 20, 1988. All written comments and formal responses are in the following appendix.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION VII

999 18th STREET - SUITE 500  
DENVER, COLORADO 80202-2405

JUN 20 1988

Ref: 8HWM-SR

Colonel W. N. Quintrell,  
Program Manager  
Office of the Program Manager for  
Rocky Mountain Arsenal  
ATTN: AMXRM-PM  
Building E4460  
Aberdeen Proving Ground, Maryland 21010-5401

Re: Rocky Mountain Arsenal (RMA),  
Air Remedial Investigation  
Draft Final Report, Volumes I  
and II, May 1988

Dear Colonel Quintrell:

We have reviewed the above referenced report and find it satisfactory. Additional graphs would aid the understanding of the effect of meteorology on the sampling results; EPA staff could offer some specific ideas.

The report indicates that information from other RMA projects may provide cause to reopen the current report. At such time, and during the Feasibility Study, consideration should also be given to new Denver air quality information which is being obtained from special studies by EPA and the State. Please call Mr. Connally Mears at (303) 293-1528, if there are questions on these comments.

Sincerely yours,

  
Robert L. Duprey, Director  
Hazardous Waste Management Division

cc: Thomas P. Looby, CDH  
David Shelton, CDH  
Lt. Col. Scott P. Isaacson  
Chris Hahn, Shell Oil Company  
R. D. Lundahl, Shell Oil Company  
Thomas Bick, Department of Justice  
David Anderson, Department of Justice  
Mike Witt, ESE



RESPONSES TO U.S. ENVIRONMENTAL PROTECTION AGENCY  
COMMENTS ON THE TASK 18 AIR REMEDIAL INVESTIGATION  
DRAFT FINAL REPORT  
MAY 1988

**Comment\_1:** Additional graphs would aid the understanding of the effect of meteorology on the sampling results: EPA staff could offer some specific ideas.

**Response:** The Army contacted Mr. Gordon MacRae of the EPA concerning these specific ideas. Mr. MacRae's suggestions were as follows:

1. Include a table summarizing high-event sampling days comparing trigger parameters for VOC, SVOC, and metals sampling with the actual conditions found during the sampling;
2. Include a table which listed all site locations, the compounds detected at that station, the maximum concentration of the compounds detected, and the date of the maximum concentration; and
3. Include a table which summarizes weather conditions detected during high-event sampling conditions.

The Army will attempt to include the information requested by the EPA in the final report depending upon how extensive the data compilation will be.

**Comment\_2:** The report indicates that the information from other RMA projects may provide cause to reopen the current report. At such time, and during the Feasibility Study, consideration should also be given to new Denver air quality information which is being obtained from special studies by EPA and the State.

**Response:** The Army will consider the air quality information from the EPA and the state.

Shell Oil Company



One Shell Plaza  
P.O. Box 4320  
Houston, Texas 77210

June 15, 1988

Office of the Program Manager  
for Rocky Mountain Arsenal  
ATTN: AMXRM-PM: Mr. Donald L. Campbell  
Building E-4460  
Aberdeen Proving Ground, Maryland 21010-5401

Dear Mr. Campbell:

Enclosed herewith are Shell Oil's comments on Air Remedial Investigation  
Final Draft Report, Task No. 18, May 1988.

Sincerely,

R. D. Lundahl  
Manager Technical  
Denver Site Project

RDL:ajg

Enclosure

cc: (w/enclosure)

Office of the Program Manager for Rocky Mountain Arsenal  
ATTN: AMXRM-RP: Mr. Kevin T. Blose  
Commerce City, Colorado 80022-2180

Office of the Program Manager for Rocky Mountain Arsenal  
ATTN: AMXRM-TO: Mr. Brian L. Anderson  
Commerce City, Colorado 80022-2180

cc: Mr. David L. Anderson  
c/o Acumenics, Inc.  
Suite 700  
624 Ninth Street, N.W.  
Washington, D.C. 20001

Department of the Army  
Environmental Litigation Branch  
Pentagon, Room 2D444  
ATTN: DAJA-LTE: Lt. Col. Scott Isaacson  
Washington, DC 20310-2210

Patricia Bohm, Esq.  
Office of Attorney General  
CERCLA Litigation Section  
One Civic Center  
1560 Broadway, Suite 250  
Denver, CO 80202

Mr. Jeff Edson  
Hazardous Materials and Waste Management Division  
Colorado Department of Health  
4210 East 11th Avenue  
Denver, CO 80020

Mr. Robert L. Duprey  
Director, Hazardous Waste Management Division  
U.S. Environmental Protection Agency, Region VIII  
One Denver Place  
999 18th Street, Suite 500  
Denver, CO 80202-2405

Mr. Connally Mears  
Air and Waste Management Division  
U.S. Environmental Protection Agency, Region VIII  
One Denver Place  
999 18th Street, Suite 500  
Denver, CO 80202-2405

Mr. Thomas P. Looby  
Assistant Director  
Colorado Department of Health  
4210 East 11th Avenue  
Denver, CO 80220

8/3/88

**RESPONSES TO SHELL OIL COMPANY  
COMMENTS ON THE TASK 18 AIR REMEDIAL  
INVESTIGATION, DRAFT FINAL REPORT  
MAY 1988**

**Comment 1:**  
Page 1-1,  
Last Paragraph

The sentence which reads "Hyman assumed the CF&I lease in 1950." should be deleted. While the Army has contended that Hyman assumed the CF&I lease, that assumption has not been substantiated nor has Shell agreed to its veracity.

**Response:**

The sentence in the text will be revised to read: "In 1949, the Colorado Fuel and Iron Corporation lease was terminated, and the property which had been under lease to Colorado Fuel and Iron Corporation was leased to Julius Hyman and Company."

**Comment 2:**  
Page 1-3,  
first full  
paragraph

In discussions in the summer of 1988, it was suggested that high wind events be monitored for asbestos downwind of Basin F and other potential sources such as Basin A, North Plants and South Plants. Has this been accomplished?

**Response:**

The Army does not recall discussions in the summer of 1988, pertaining to air monitoring for asbestos downwind of Basin F or other potential sources. However, the Army does recall discussions on this matter in the summer of 1987 during meetings in Breckenridge, Colorado. During Task 18 monitoring, the Army did monitor for asbestos up and downwind of the prevailing wind direction of South Plants, and downwind of North Plants every 12th day from June 1986 through June 1987. Specific downwind asbestos monitoring of Basin F, Basin A, South Plants, and North Plants was not accomplished

during high wind events during Task 18. However, monitoring for asbestos downwind during high wind events will be accomplished during the summer of 1988 at Basin F.

**Comment 3:**  
Page 1-12,  
last paragraph

Why is mercury analyzed by a vapor technique but not by a particulate technique?

**Response:**

Analysis for mercury associated with particulate was not routinely done nor certified due to the relatively high vapor pressure of mercury. The Army did not believe mercury associated with particulate would be detectable and opted to collect and analyze for vapor, the state in which mercury would be more commonly found.

**Comment 4:**  
Page 2-3,  
Table 2.1-1

The nitrogen oxide values are 24 hour maximums, not annual arithmetic means.

The text at page 2-7 (second paragraph of 2.1.5) states that the maximum sulfur dioxide level was 0.32 ppm, not 0.10 ppm.

Data whose source is USAEHA, 1969 should be footnoted on this table.

**Response:**

The National Ambient Air Quality Standard (NAAQS) for nitrogen oxide ( $\text{NO}_x$ ) is an annual arithmetic mean. In Table 2.1-1, page 2-3, the figures listed for the primary NAAQS, Northeast Denver, and Urban Denver are annual arithmetic means. Only the historical data near RMA for  $\text{NO}_x$  is a 24-hour maximum and has been noted as such in the report.

8/3/88

The maximum sulfur dioxide (SO<sub>2</sub>) level was 0.32 parts per million (ppm) as stated in the text on Page 2-7. Table 2.1-1 has been corrected accordingly. The source of all data in the table has also been noted on the table.

**Comment 5:**  
Page 4-7,  
last full  
sentence

Shell does not believe that it handled or manufactured di-n-butylamine at the RMA in 1951 or any time. What is the source of the Army's information?

**Response:**

The attribution of the use of di-n-butylamine at RMA to Shell operations appears unsupported by the historical record. Accordingly, the text will be revised to omit attribution of this chemical to Shell.

**Comment 6:**  
Page 4-18,  
last full  
paragraph

If, as stated, the SIA data are representative of the RMA area, there should be no need for continued collection of meteorological data on the RMA.

**Response:**

SIA meteorological data is representative to characterize long term meteorological conditions at RMA. However, the Army believes that continued collection of meteorological data is necessary for real-time information during remedial actions and air quality monitoring.

**Comment 7:**  
Page 5-5,  
Section 5.6

In the first sentence shouldn't since the 1960's be instead since 1962?

The text should note the condition of the dust suppressant cover, when present, during any test period. Operating status of the power house should likewise be noted.

8/3/88

**Response:**

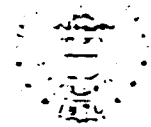
The Army agrees that since the 1960's should be since 1969. This will be changed in the report.

Prior to the Task 18 sampling program, the last application of dust suppressant was accomplished in 1982 in Basin A. This cover was not present during the period when Task 18 sampling took place. This fact will be noted in the report. In addition, the report will note that the powerhouse operated on a daily basis during the year-long Task 18 monitoring program. One or two package boilers burned daily during warm weather months while one permanent boiler burned during cold weather months. All of these boilers burn natural gas.

# STATE OF COLORADO

COLORADO DEPARTMENT OF HEALTH

1000 North Broadway  
Denver, Colorado 80202  
(303) 733-2000



Roy Rome  
Governor

Thomas M. Vernon, M.D.  
Executive Director

June 17, 1988

Mr. Donald Campbell  
Department of the Army  
Program Manager's Office  
RMA Contamination Cleanup  
AMXRM-88, Building 24885  
Aberdeen Proving Ground, MD 21010-5401

Re: State Comments on Task 13, Air Remedial Investigation, Draft  
Final Report

Dear Mr. Campbell:

Enclosed are the State's comments on Task 13, Air Remedial Investigation Draft Final Report. On a number of occasions Army personnel have indicated verbally that the RMA Air Monitoring Program could be revised in FY 1988-89 if the State provided "technically justifiable recommendations." The enclosed comments respond to the Air Remedial Investigation Draft Final Report only and do not include recommended modifications to enhance that program. We would appreciate receiving a written commitment from the Army that the State's recommendations for modifying the air investigation will be incorporated into the RMA program to the extent those recommendations are technically justified. Upon receipt of a written commitment from the Army, I will request Air Pollution Control Division personnel to prepare an outline of recommended modifications.

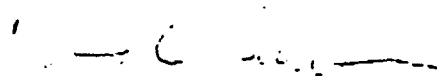
If you have any questions regarding the enclosed comments, please contact Jeff Edson with this Division.

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Mr. Donald Campbell  
Jan 17, 1988  
Page 1

Sincerely yours,

  
David C. Shelton  
Director, Hazardous Materials  
and Waste Management Division

DCS/PB/rw

cc: Michael R. Hope, Deputy Attorney General  
David L. Anderson, Esq.  
Chris Mahn, Shell Oil Co.  
Edward J. McGrath, Esq., HRO  
Michael Gaydosh, Esq., EPA  
Connally Mears, EPA

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08/03/88

**RESPONSES TO COLORADO DEPARTMENT OF HEALTH  
COMMENTS ON THE TASK 18 AIR REMEDIAL INVESTIGATION  
DRAFT FINAL REPORT  
MAY 1988**

General Comments

Comment 1:

The Air Remedial Investigation Report does not include quality assurance information needed for the State to adequately review this Report. The text indicates that the data collection effort included quality assurance checks. However, without reviewing the quality assurance data, the State is unable to draw any conclusions with respect to the adequacy of the air investigations. The Report should include the following data: all audit and calibration sheets for the TSP, PM-10, and meteorological monitors, as well as any documentation concerning lab procedures and quality assurance for organics.

Response:

The Army followed all Quality Assurance/Quality Control (QA/QC) procedures as detailed in the Task 18 Technical Plan. As is the case with water and soils QA/QC materials, specific Task 18 QA/QC materials are available in the applicable project files.

Comment 2:

The Report is limited by the fact that only three months of meteorological data was collected. The State agrees that until more data is collected Stapleton information should be used for modeling efforts.

Response:

No response required.

Comment 3:

PM-10 data recovery was below 75 percent -- an unacceptably low recovery rate. Additional PM-10

08/03/88

monitoring is needed to establish background and determine the appropriate ARAR for particulates.

**Response:**

The Army recognizes that below 75 percent recovery is an unacceptable rate. This low recovery rate was due to equipment and power failures. However, while additional PM-10 data is currently being collected at RMA, additional PM-10 data can be estimated using TSP data collected during the Task 18 program.

As suggested by Table 4.1-3 of the report, a correlation exists between TSP and PM-10. This indicates that PM-10 concentrations are approximately 66 percent of TSP concentrations at RMA. Information obtained from the Colorado Department of Health (CDH) Air Pollution Control Division (APCD) also suggests that TSP data in general for Colorado can be used to estimate PM-10 concentrations by applying a conversion factor of 50 percent. The Army recognizes that seasonal and daily variations and location will effect the conversion factor. The EPA has also indicated that the 66 percent figure is comparable to national averages.

**Comment 4:**

The Report should include the calibration method and the flowrate used for the PM-10 monitors. The Report should also indicate whether TSP and PM-10 flows were corrected to STP (Standard Temperature and Pressure).

**Response:**

Please refer to the Task 18 Technical Plan for detailed calibration methods, flowrates, and correction procedures for TSP and PM-10 sampling.

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Specific CommentsComment 1:

P. 4-1

The State is concerned about the locations of sampling stations for VOC-events 2, 3, 4, and 7, and SVOC-events 2 and 6. In all of these cases, the sampling stations were not located in a predominant downwind direction such that the maximum potential emissions would have been sampled. This is especially true in the case of SVOC-event 2 which sampled completely upwind of Basin A emissions.

Response:

Samplers for these events were located dependent upon wind direction at the start of the sampling event. The Army made no attempt to change sampler locations with shifts in wind direction once a sampling event was initiated.

To specifically address SVOC-2, four samplers were started for this event. However, three of the samples were invalid due to timer and power problems during the sampling period. For this reason, only results of the upwind sample were reported.

Comment 2:

P. 4-5

The Report discusses the VOC sampling performed around Basin F. Several compounds including siloxane, methylene chloride and acetone are described as "laboratory contaminants". Steps must be taken to prevent or minimize the effects of these laboratory contaminants on the analyses. Some of the methylene chloride concentrations detected were as high as 3500 ug/M3. The Report should include an explanation of the detection of these compounds. The Report should also include an explanation as to why dioctyladipate was determined to be a laboratory contaminant. Benzene is a common artifact in the analyses of Tenax<sup>TM</sup> tubes, yet

there is no mention of the detection of benzene in any of the samples -- why?

**Response:**

Siloxane, methylene chloride, and acetone are common laboratory contaminants. The Army agrees that the effects of these contaminants should be minimized and the Army made every attempt to do so. However, it is extremely difficult to completely eliminate these compounds.

Siloxane is a decomposition product from various components of the gas chromatograph. The septa, the silicon phase inside the column, and the liner inside the injection port are made of materials which produce decomposition products: mainly siloxane upon the introduction of air to the instrument. This decomposition is difficult to control.

Methylene chloride and acetone are common solvents used in all laboratories. The Army believes it took successful steps in minimizing the effects of these solvents on sample contamination as shown in the sample results after the detection of 2,500 ug/m<sup>3</sup> of methylene chloride.

Diethyladipate is not a laboratory contaminant. The report will be changed accordingly.

The Army disagrees that benzene is a common artifact in the analyses of Tenax<sup>TM</sup> tubes. Army laboratory analysts have found other common artifacts such as low weight aldehydes. However, benzene has not been seen consistently.

Comment 3:

P. 4-7

The Report identifies limonene as a naturally occurring substance from vegetation. Limonene is derived commercially from citrus. The Report should identify what Arsenal vegetation is believed to be the potential source of limonene. Similarly, the Report should identify the source of the background polynuclear aromatic hydrocarbons found during SVOC-event 1.

Response:

The Army fails to locate in the text where it specifically links limonene with vegetation, however, limonene is not only associated with citrus, but also with vegetation found native to Colorado and the RMA including Ponderosa Pine. Two Ponderosa Pines are located inside the fence around Basin F. Both samples detecting limonene were downwind of the pine trees.

Polynuclear aromatic hydrocarbons (PAHs) are nearly ubiquitous in the environment. They originate from combustion, tobacco smoke, vehicle exhaust, petroleum distillates, creosote, and energy generation. Therefore, it would be extremely difficult to identify the source of background PAHs.

Comment 4:

P. 4-19 thru

P. 4-21.

The Report should indicate whether the TSP averages are arithmetic or geometric.

Response:

The report will indicate that the TSP averages are geometric.

Comment 5:

P. 5-2

The Report states that the National Ambient Air Quality Standard for TSP may be exceeded off-site during future remedial actions. Due to the fairly high TSP concentrations, the Army should contact the Division far in advance of any future plans which could require

permits. Since the Division must enforce this standard, permits for such remedial actions may be difficult to secure.

**Response:**

CDH apparently misapprehends the law applicable to the future remedial actions referenced in the text. CERCLA Section 121(e), 42 U.S.C. Section 9621(e), expressly provides that: "No Federal, State, or local permit shall be required for the portion of any removal or remedial action conducted entirely onsite, where such remedial action is selected and carried out in compliance with this section." Since all the remedial action referenced in the Report will occur entirely onsite of a CERCLA operable unit and in compliance with CERCLA Section 121, no State air permits are required or will be obtained by the Army for such CERCLA response actions.

Through the RI/FS process, in which CDH is a participant, the Army will keep CDH's Air Pollution Control Division fully informed of all proposals or remedial action decisions that could bear on that Division's area of expertise.

The Army disagrees that these results are fairly high. As compared to data reported by CDH in its Air Quality Data Report, 1986, RMA results are lower than many of the Denver locations for TSP. In Adams City, a site very near the RMA, the annual average for TSP was  $83 \text{ ug/m}^3$  with a 24-hour maximum of  $339 \text{ ug/m}^3$ . At RMA, during conduct of this task, the maximum annual average was 46.9 with a 24-hour maximum of  $151.4 \text{ ug/m}^3$ .

Comment 6:

P. 5-3

The Asbestos Assessment section contains at least one inaccurate statement. The Report states that "There are no . . . guidelines for acceptable levels of airborne asbestos". The APCD uses 0.01 fibers/cc as a guideline for determining when a building is safe for reoccupancy after an abatement is conducted. As many as 12 states have also adopted this level as a standard, with more states expected to follow.

Response:

The Army agrees that there is a guideline for airborne asbestos in buildings of 0.01 f/cc, however there is no standard or guideline for outdoor air which is what the Army monitored during Task 18.

Comment 7:

P. 5-3

The Report states that Colorado's Regulation No. 8 is identical to the Federal NESHAPS Regulation and that its intent is to prevent "visible emissions". This statement is inaccurate. Regulation No. 8 was written with the NESHAPS regulations as a model; however it is more stringent than the NESHAPS regulations. Furthermore, Regulation No. 8 does not merely prevent visible emissions, since dangerously high levels of asbestos fibers can exist before there are any emissions visible to the naked eye. Regulation No. 8 regulates work practices, air cleaning and disposal practices during renovation and demolition activities that will disturb asbestos-containing materials. If the Army undertakes an asbestos abatement project, it must notify the Colorado Department of Health, Air Pollution Control Division, a minimum of ten days prior to beginning the project.



**Response:**

Since Regulation No. 8 pertains only to certain specific industrial activities and none of the specified activities is occurring at RMA, Regulation No. 8 is not pertinent to remedial activity at the Arsenal except to the extent that the State elects to suggest it to the Army as a potential relevant and appropriate promulgated standard that is more stringent than a federal standard and warrants consideration at an ARAR.

While the Army has no legal obligation to advise CDH's Air Pollution Control Division of any asbestos abatement project undertaken on the RMA federal facility in the context of CERCLA response actions, the Army will keep the Air Pollution Control Division informed, through regular communications with CDH's RI/FS Committee representative, of all significant CERCLA-related asbestos abatement activity.

**Comment 8:**

P. 5-3

The Report should indicate that the OSHA standard of 0.2 fibers/cc is a standard to be used only in an abatement workplace setting. It is not proper to apply this standard to a non-abatement setting; that is, 0.2 fibers/cc should not, in any way, be regarded as a safe ambient air level.

**Response:**

The Army agrees and will modify the report accordingly.

**Comment 9:**

P. 5-3

The Colorado Air Quality Control Commission's Regulation No. 7 contains general emission limitations for VOC's and requirements for disposal. The Arsenal is located in an ozone nonattainment area. Therefore, the disposal by evaporation of more than 10 gallons per day of VOCs is prohibited, Basin F has the potential to exceed this limitation. Therefore, the State disagrees with the statement on Page 5-3 that there are no regulatory

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requirements that apply. Further, the State cannot agree with the statement on Page 5-4 which indicates the VOC and SVOC levels are not significant relative to historical monitoring. What is meant by historical monitoring and significant?

**Response:**

Basin F is not presently evaporating more than 10 gallons per day of VOC's.

While evaporation has been part of the Basin F CERCLA interim response action as it has unfolded to date, resulting VOC levels, with infrequent exception, have been at zero or at background levels. Even where some VOC emissions have occurred at levels above background, these levels have been below the rate of 10 gallons of VOC per day.

The Army meant in its statement, "VOC and SVOC levels are not significant relative to historical data", that VOC and SVOC concentrations detected during Task 18 are similar to those detected during past monitoring for these compounds at RMA.

**Comment 10:**  
Appendix B

The State calculated a different flowrate for the TSP metal data tables presented in Appendix B. Is the computer program automatically converting to STP?

**Response:**

Yes, the computer program is automatically converting to STP.

**Comment 11:**  
Appendix 3B

It appears that the asbestos air monitoring was conducted using a recognized protocol -- the NIOSH 7400 method. The report should include the actual sampling volumes tabulated in Appendix B.3 and a more detailed description of the air sampling techniques used.

**Response:** The Army detailed sampling techniques in the Task No. 18 Technical Plan. Sample volumes were at least those stated in the Technical Plan.

**Comment 12:** The Report should indicate whether the TSP averages are  
**Appendix C** arithmetic or geometric.

**Response:** The averages are arithmetic and will be noted as such in the report.

**Comment 13:** The report should indicate whether the precipitation is  
**Appendix D** a cumulative total or the amount which fell in each hour. July 17-24 shows values of .35 inch for every single hour. Is this an accurate amount? Also, the meteorological data for hours 10:15-13:15 on September 19 look unusually stable.

**Response:** The precipitation sensor resets to zero after 1 inch of cumulative precipitation. The value of 0.35 inches for the entire July 17 through July 24 period indicates that 0.35 inches of precipitation had been recorded up to July 17. No precipitation fell in the referenced period which explains why the value remained at 0.35.